

Babak
ZOHREVAND

Resume of a
Software Alchemist,
transforming
complexity into
crafted and elegant
solutions.



Software Engineering

- ▶ The primary focus is placed on the development of web, mobile native and cross-platform applications aimed at a vast number of diverse devices and their integration with existing or made-to-measure back-end services.
- ▶ Design and deployment of Cloud Functions, to enable real-time communication between mobile clients and backend services, optimizing performance and scalability.
- ▶ Leveraging custom middleware for smooth API interactions and efficient data processing pipelines.
- ▶ Integration and development of RESTful APIs with robust authentication layers, securing transactions while maintaining optimal performance.
- ▶ CI/CD automation ensuring streamlined deployments and operational reliability.
- ▶ Translating designs and wireframes into high quality code.
- ▶ Designing, building and maintaining high performance, reusable, and reliable code.
- ▶ Skilled in applying OWASP principles to enhance application security, mitigating vulnerabilities such as SQL injection, XSS, and CSRF, adhering to OWASP Top 10 guidelines.
- ▶ Ensuring the best possible performance, quality, and responsiveness of an application.
- ▶ Identifying and correcting bottlenecks and bug fixing.
- ▶ Helping to maintain code quality, organization, and automatization.
- ▶ Possibility of working along-side other engineers and developers working on different layers of an infrastructure.
- ▶ Therefore, commitment to collaborative problem solving, sophisticated design, and creating quality products is within my capabilities.

Technical Stacks

- ▶ Mobile native development: Android
- ▶ Cross-platform development: Flutter
- ▶ Core & Backend Development: Spring Boot Core, Symfony Framework, Spring MVC, Symfony Controller & Routing, Laravel Routing, Spring Boot Validation, Symfony Validator Component, Spring AOP, Symfony Event Dispatcher, Laravel Events & Listeners, Autowired DI, Dagger, Hilt, Koin, Laravel Service Container
- ▶ Database & Persistence: Hibernate ORM, Doctrine ORM, Eloquent ORM, FFirebase, Room Database (DAO), MySQL, PostgreSQL, Spring Cache, Symfony Cache Component, Laravel Cache
- ▶ Security & Authentication: Spring Security (JWT/OAuth2), Symfony Security Component, Laravel Authentication (Passport/Guard), Spring Session Management, Symfony Security Firewalls & Session Handling, Laravel Session & Middleware, Biometrics, Firebase Authentication, Jetpack Security, OWASP Top 10 Compliance
- ▶ Testing & Quality Assurance: JUnit, Mockito, Mockk, PHPUnit, Symfony Test Tools, Laravel Testing (Dusk), Spring Boot Testing, Symfony Panther, Spring Boot Actuator, Jacoco, Symfony Web Profiler, Laravel Telescope
- ▶ Middleware development: Custom integration solutions using Node.js and Express.js, Laravel Middleware
- ▶ API integration & development: Spring Boot REST APIs, Symfony API Platform, Laravel API Resources, Spring WebFlux, Symfony Messenger, Spring Kafka, Symfony Messenger, WorkManager, Firebase Cloud Messaging, Retrofit
- ▶ Cloud Platforms: Google Cloud Platform, Firebase, Azure Functions, Azure Service Bus
- ▶ DevOps & CI/CD: Docker, Azure Pipelines, Github Actions, Jenkins, Spring Cloud Config, Symfony DotEnv & Config Component, Laravel Envoy & Configuration, Kubernetes, OpenShift, Symfony CI/CD
- ▶ Architectural Design: Clean Architecture, MVC, RESTful API, Spring Boot Microservices, Symfony Microservices, Laravel Microservices, Spring Batch, Symfony Messenger & Worker Jobs, Spring Circuit Breaker, Symfony Retry Strategies, ViewModel (MVVM), Laravel Retry & Fallbacks,
- ▶ Front-end: Angular, jQuery, Bootstrap, CSS, HTML, SASS, Less, Backbone.js, Node.js, Gulp, Flutter, Laravel Blade
- ▶ E-commerce: WooCommerce, Prestashop, Shopify
- ▶ CMS: WordPress
- ▶ Agility: Scrum methodology

Innovative Lead Software Engineer with over a decade of experience in cloud architecture, middleware programming, mobile development, backend engineering and DevOps practices.

Passionate about fostering high-performance engineering teams, I drive cloud adoption, API-driven integrations, ensuring seamless digital experiences while maintaining cost-efficiency and operational excellence.

Beyond technical skills, I bring leadership, team development, cultural awareness, and the ability to foster collaboration and alignment within diverse teams.

Hard work, dedication, proactivity, and enthusiasm—grounded in my character traits—are an inherent part of who I am. Rooted in Kaizen principles, I strive for continuous improvement, efficiency, and adaptability, ensuring that both my work and my team's processes evolve for the better. I take ownership of my work and strive to foster collaboration, guide teams, and drive impactful solutions in every environment I step into.

I am actively exploring new opportunities to apply my expertise, lead meaningful projects, and continue growing alongside talented teams. I'd love to connect, exchange ideas, and explore how I can contribute to your team's success.

Looking forward to chatting soon!

34 years old

📍 Brussels (1081) Belgium

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- ▶ Languages: Kotlin, Java, PHP, Javascript, Typescript, C/C++, C#, SQL, MySQL, SQLite, XML, JSON, Dart, UML

People & Project Management

- ▶ Leadership
- ▶ Public Speaking
- ▶ Customer support
- ▶ Team Development
- ▶ Cultural Sensitivity
- ▶ Conflict Resolution

Languages

- ▶ English (complete professional mastery)
- ▶ French (bilingual)
- ▶ Dutch (smattering)
- ▶ Persian (mother tongue)

🎓 EDUCATION

Bachelor degree of computer science

Institut Paul Lambin

September 2009 to June 2012

Emphasised by Java, C++ (graphics programming), Android and Artificial intelligence

High school

Centre scolaire Ma Campagne

June 2003 to June 2009

General Secondary Education with Specialization in Mathematics and Advanced Sciences. Class Representative from the first until the very last year.

👛 EXPERIENCES

Mobile, Frontend & Backend Developer

Staizen - Since August 2020 - Freelancer - Brussels - Belgium

staizen

- ▶ Staizen is a strategic partner for enterprise clients navigating the complexity of digital transformation. We engineer transformation with tools and expertise that bring the best of business and technology, from vision to implementation.
- ▶ The name Staizen is short for "State of Kaizen". Inspired by the Kaizen philosophy of continuous improvement. We believe that lasting transformations is achieved by committing to getting 1% better each day.
- ▶ At Staizen, I am tasked with engineering and delivering products that facilitate successful enterprise transformation. My role involves bringing clients' visions and ideas to life through the application of leading best practices and proven design principles. I focus on building end-to-end applications that not only meet internal needs but also significantly enhance the customer experience.

Mobile Developer

Worldline & Ingenico - September 2020 to December 2024 - Freelancer - Brussels - Belgium



- ▶ Atos Worldline and Ingenico, leaders in fintech, specialize in innovative payment solutions. As part of Ingenico, which powers most of the world's terminal-based transactions, our team trains IT companies to develop advanced mobile payment apps, serving millions globally.
- ▶ Here's my role and impact at Atos Worldline/Ingenico:

- ▶ **Leading the Charge:** I spearheaded diverse mobile development teams from concept to launch, ensuring our apps not only met but exceeded quality standards, delivering an unforgettable user experience.
- ▶ **Integration Maestro:** As a pivotal part of the terminal system support and integration team, I mentored clients and partners, guiding them through the process of marrying their applications with Worldline's payment terminals. My strategy? A modular, flexible software development approach that simplifies integration.
- ▶ **Simplifying Complexity:** I've made integration a breeze by developing and sharing our in-house software development kit and terminal management tools. This empowers developers to delve into the business aspects of their apps, while operators can deploy solutions effortlessly in the field.
- ▶ **Team Synergy:** My role involved close collaboration with cross-functional teams to brainstorm, design, and roll out innovative features. I also put my skills to work in rigorous testing and bug fixing, enhancing the performance of our applications at every turn.
- ▶ **Educator at Heart:** Regularly, I took the stage to conduct training sessions, helping developers navigate the integration of their applications into the Worldline ecosystem, making technology accessible and actionable.

Mobile & Backend Developer

Sotrad Water - Since May 2022 - Freelancer - Brussels - Belgium



- ▶ Sotrad Water, a Belgian company, provides potable water solutions, producing 1–200 m³/hour from surface water. Operating in over 25 countries across Africa, Asia, and Latin America, it focuses on rural and peri-urban areas, ensuring water meets WHO standards and fostering socio-economic development.
- ▶ The company offers a variety of water treatment solutions tailored to meet the needs of both populations and industries, including storage solutions. Their products are designed to be user-friendly, durable, and require minimal energy and consumables, which makes them particularly suitable for emerging countries.
- ▶ The SotradWater Android project is a comprehensive initiative to streamline and enhance the business logic, deployment, and maintenance of Firebase and Android applications focused on water-related services such as of water pump evaluation and implantation. The project's primary objectives are to ensure robust testing, implement retry logic for error-prone operations, and integrate Firebase Test Lab for scalable instrumentation testing.

Mobile Developer

PlayPass - January 2020 to March 2020



- ▶ PlayPass is a leader in the innovation of Cashless, Access, and Ticketing Technology solutions, revolutionizing the event industry by enhancing attendee experience and operational efficiency. Through state-of-the-art technology, PlayPass enables secure, seamless transactions and interactions at events worldwide.
- ▶ In September 2020, PlayPass joined the Weezevent family to offer the best in cashless payment, access control, ticketing and accreditation technology.

Unfortunately my mission at the company was cut short due to COVID-19 Pandemic.

- ▶ Here's my contribution at PlayPass:

Architect of Innovation: I designed a cashless payment system specifically for event environments.

- ▶ **Tech Wizard:** I developed cashless solution applications for POS terminals, leveraging technologies like NFC for seamless transactions.
- ▶ **Fleet Management:** I managed the POS terminal fleet, tailoring solutions to meet event-specific needs through Android Management API and MDM solutions.
- ▶ **Seamless Integration:** Connected POS systems to multiple payment platforms, integrating gateways like Lyf, Payworks, Ingenico, and Worldline, while ensuring adherence to Android design guidelines for customer wallet integration.
- ▶ **Event Scale Success:** Enabled the solution to be utilized on a massive scale at events, with the goal of facilitating contactless transactions through wearables, thus enhancing user experience and operational efficiency.

Backend developer

Amazon - July 2019 to December 2019 - Freelancer - Luxembourg - Luxembourg



- ▶ As part of the transportation team, I worked with business operations to integrate new carriers and shipping methods into the network, which involved designing, developing and maintaining transportation documents like carrier electronic manifests and invoices.
- ▶ As a Java Web Developer within Amazon's transportation team, I played a critical role in enhancing the logistics and shipping capabilities of the company.
- ▶ System Integration: Worked closely with business operations to integrate new carriers and shipping methods into Amazon's vast transportation network. This involved the automation of critical transportation documents like carrier electronic manifests.
- ▶ Engaged with cross-functional teams to ensure that the software solutions aligned with business needs, streamlining processes and improving operational efficiency.
- ▶ By crafting and integrating new shipping solutions, I helped in making Amazon's logistics operations more flexible and responsive to changing market demands. This work was pivotal in handling the complexity of Amazon's shipping ecosystem, contributing to the company's ability to deliver products efficiently worldwide.

Mobile Developer

Atos Worldline - November 2018 to June 2019 - Freelancer - Brussels - Belgium



- ▶ Atos Worldline, now known as Worldline, is a global leader in the payment and transactional services industry, renowned for pioneering digital payment solutions. With a strong presence in Europe, they specialize in providing secure and innovative payment systems, including point-of-sale terminals, online payment processing, and mobile payment solutions.
- ▶ I joined Worldline at a pivotal moment when they were transitioning their payment terminal technology from an older C-based system to a new generation powered by Android (Java). My role was critical as they sought a lead developer to not only spearhead this migration but also to mentor and elevate the capabilities of their junior developers, ensuring the new technology's mastery remained in-house.
- ▶ In brief:
Migration Leadership: Spearheaded the migration from legacy C-based payment terminals to modern Android-based systems, ensuring a smooth transition while maintaining quality and functionality.
- ▶ Developer Mentorship: Acted as a consultant and leader, guiding junior developers through this significant technological leap, fostering in-house expertise and innovation.
- ▶ Application Development: Kickstarted the development of Worldline's official suite of mobile applications, including Home, Payment, Merchant, and Printer apps, with the vision to establish a marketplace for easier integration with YUMi & Valina terminals.
- ▶ App Lifecycle Management: Led the mobile development team through the full app lifecycle, from conception to delivery, ensuring high standards of software quality and an engaging user experience.
- ▶ Problem Solving: Supported the development team in resolving clinical errors and optimizing performance.
- ▶ Knowledge Sharing: Initiated and organized code school sessions to educate and guide junior developers, promoting a culture of continuous learning and best practices.

Mobile Developer

KBC Bank & Verzekering - May 2018 to October 2018 - Freelancer - Leuven - Belgium



- ▶ In charge of the development, maintenance and testing of conceptualized features of the native Android banking apps of KBC, including UI, core functionality with the help of in-house and third-party SDKs.
- ▶ Responsible for implementing new features in KBC's new business banking application.
- ▶ Collaborated with business analysts, project managers, and 20+ mobile developers. Driving the team forward towards agility based on Scrum methodology.

- ▶ Drawing up the test design for the functional and end to end tests in conjunction with the analyst, application manager and (end) user in consultation with the test adviser.

Mobile, Frontend & Backend Developer

The Crew Communication - August 2017 to April 2018 - Freelancer - Waterloo - Belgium



- ▶ The Crew was a traditional print marketing company specializing in high-quality print materials and branding. Known for their creative excellence, they were at the cusp of expanding their services into the digital marketing arena to meet evolving market demands.
- ▶ I joined The Crew at a pivotal moment as they were transitioning from a print-centric business model to embracing digital marketing. My role was instrumental in this digital transformation, focusing on bringing their marketing strategies into the modern era through innovative web development and digital solutions.
- ▶ Responsibilities:
 - Digital Transition: Assisted in the company's shift from print to digital by developing web-based solutions that aligned with their marketing vision, enhancing their digital footprint.
 - Web Project Execution: Translated creative marketing concepts into technical implementations, focusing on creating and maintaining WordPress-based websites that were both functional and visually compelling.
 - Brand Digitalization: Played a key role in bringing brands to life in the digital space, ensuring that their online presence was as impactful as their traditional marketing efforts.
 - Technical Implementation: Developed and maintained features of web solutions, ensuring they were responsive, user-friendly, and aligned with SEO best practices to maximize reach and engagement.
 - Client Interaction: Worked closely with marketing teams to understand and implement branding requirements into the digital realm, fostering a seamless blend of creativity and technology.

Mobile, Frontend & Backend Developer

Homelog - April 2013 to July 2017 - Full-time - Brussels - Belgium



- ▶ Homelog is a dynamic company revolutionizing property management through innovative technology. Its solutions streamlined operations for landlords and tenants, ensuring efficient communication, seamless property management, and enhanced living experiences.
- ▶ Role and Achievements:
 - Spearheaded the foundational development of Homelog as a startup, taking it from concept to a fully operational platform.
 - Designed, developed, and maintained the first versions of Homelog's web and Android applications, providing a robust user experience and scalable architecture.
 - Engineered and implemented a RESTful API to power the core functionalities of Homelog's applications and facilitate integrations with partner systems.
 - Established Agile and Scrum methodologies within the team, improving project delivery timelines by 30% and increasing team productivity by 20%.
 - Played a key role in achieving product maturity, enabling the company to onboard its first clients and reach initial market success.

Mobile, Frontend & Backend developer

Snowcap - October 2014 to September 2015 - Full-time - Brussels - Belgium



- ▶ Snowcap was a technical agency dedicated to delivering high-quality web development solutions. By leveraging efficient and open technologies, Snowcap provided tailored strategies and development services, enabling businesses to thrive in a competitive digital landscape.
- ▶ As a developer of a technical agency, the scope of my tasks included pretty much everything related to web development, including analysis and technological strategy, backend and frontend web development as well as IT consultancy and support.

- ▶ My approach was dead simple: using efficient and open technologies in order to deliver high-quality web projects.

End-of-study internship



Easynext - March 2012 to June 2012 - Internship - Brussels - Belgium

- ▶ Easynext was a technology company specializing in developing innovative, multi-tiered software solutions.
By leveraging modern programming methodologies and tools of .NET framework, Easynext used to create scalable systems tailored to business needs, fostering operational efficiency and technological advancement.

▶ Role and Achievements:

Designed and implemented a communication architecture between a Windows Phone 7 application and a multi-tiered server system.

- ▶ Developed a simplified service management application to showcase the functional capabilities of the architecture.
- ▶ Gained hands-on experience in integrating front-end applications with robust backend services using cutting-edge technologies.
- ▶ Delivered a seamless demonstration of the system, reflecting scalability and usability in real-world scenarios.

Observation internship



WDM Belgium - February 2011 - Internship - Brussels - Belgium

Observing on the ground certain concepts acquired during the first 3 semesters of the training and elaborating a synthesis of the acquired experience.

INTERESTS

Causes

- ▶ Ancient civilizations
- ▶ Animal Welfare
- ▶ Arts and Culture
- ▶ Environment
- ▶ Human Rights
- ▶ Science and Technology
- ▶ Consciousness

Video games

- ▶ Simulation
- ▶ Action-aventure
- ▶ Strategy

Sport

- ▶ Football
- ▶ Fitness
- ▶ Mixed Martial Arts

IT enthusiastic

- ▶ The Internet of Things
- ▶ Communication
- ▶ Nanotechnology
- ▶ Artificial Intelligence

Music

- ▶ Traditional
- ▶ Rock
- ▶ House