

AZIZ OUADOUD

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SOFTWARE ENGINEER

Skilled Software Engineer with nearly 2 years in full-stack development, specializing in React/React Native for dynamic frontend and mobile applications and Java and the Spring Framework for backend services. Skilled in designing and implementing scalable, user-centric solutions with a focus on performance and robustness. Driven by a commitment to continuous improvement, consistently refines both backend and frontend capabilities to deliver high-quality, efficient software solutions. Collaborative and adaptable, with strong communication skills that were honed-in start-up environments, fostering effective teamwork and innovative problem-solving.

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- UI/UX Design • Object Oriented Programming • API Design • Design Patterns
 - Database Development • Data Structures and Algorithms • CI/CD

Languages: TypeScript, JavaScript, Java

Web: HTML, CSS, JSON, HTTP, XML

Web Services: REST

Web/App Servers: Apache Tomcat

Frameworks: React, React Native, Cypress, React Testing Library, Tailwind CSS, Spring, Spring Boot, Hibernate

Databases: MySQL, PostgreSQL

Design Patterns: Singleton, Factory, Command, Proxy, Strategy, Iterator, Decorator, Adapter

SDLC: Agile

Tools: NodeJS, NPM, Maven, Gradle, Slack, Jira, Git, GitHub, VS Code, Android Studio, IntelliJ IDEA

Platforms: Windows

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

ATRACIO (PREVIOUSLY KNOWN AS ORITECH), Casablanca, Morocco • 11/2022 – 04/2024

A software company powered by artificial intelligence and bolstered by the Internet of Things (IoT).

Software Engineer

Build ERP System.

- Designed and implemented an adaptive CRUD framework combining Spring with React for web and React Native for mobile, dynamically generating UI components based on field types and JSON configurations, reducing development time for new CRUD operations by 80% while ensuring consistent functionality across platforms.
- Developed a native module in Java and integrated it into the mobile app with React Native and TypeScript, enhancing performance and reducing load times by 20%, resulting in a faster and more responsive user experience.
- Built responsive interfaces with CSS and Tailwind CSS, improving user satisfaction by 25% due to faster page loads and a more visually appealing design.
- Engineered a multilingual translation framework by implementing a custom Property Source Loader to load JSON files in place of traditional properties files, seamlessly integrating with Spring, React, and React Native to support multiple languages. Enhanced flexibility for adding new languages through simple configurations, improving accessibility across web and mobile platforms.
- Resolved bugs and optimized database interactions in Java and MySQL, while addressing anti-patterns in the web and mobile apps with React and React Native, improving application load times and providing a smoother, more consistent user experience across platforms.
- Established a repository of reusable code and libraries in Git, increasing development efficiency and promoting consistency across projects.
- Constructed CI/CD pipelines with Jenkins, Maven, and Gradle, automating deployment processes and streamlining the development lifecycle.

- Leveraged Shell scripting to automate routine tasks and improve operational workflows, reducing manual intervention and boosting productivity.

Technologies Used: Java, J2EE, Spring Framework, Spring Boot, Hibernate, MySQL, TypeScript, React, React Native, CSS, Tailwind CSS, Jenkins, Maven, Gradle, Shell script, Git, Slack.

INTERNSHIP EXPERIENCE

MYOPLA, Al Hoceima, Morocco

A business process services company specializing in onshore and offshore outsourcing across sales, marketing, customer relations, and finance.

Software Engineer (02/2022 – 07/2022)

Build a System of Detection and Analysis of Emotion from Speech Signals.

- Conducted conceptual and technical studies to inform and guide project development, ensuring alignment with project goals and identifying optimal solutions for complex requirements.
- Developed automation scripts for speech-to-text voice recognition, streamlining data capture processes.
- Engineered cloud verbatim generation scripts, automating transcription workflows and enhancing data accessibility.

Technologies Used: Python, Django, VOSK API, ReactJS, Git.

Full Stack developer (06/2021 – 08/2021)

Construct an integrated information system tailored specifically for efficient human resources management.

- Built a user-friendly web application for managing employee data, document uploads, time-off requests, and certificate management, consolidating multiple functionalities into a seamless system.
- Implemented robust authentication systems for various roles, including administrators, managers, supervisors, and employees.

Technologies Used: Java/J2EE, Spring Boot, ReactJS, MySQL, Git.

ACADEMIC PROJECTS

Maharishi International University (2024)

- **PathFindingVisualizer:** Developed a Path Finding Visualizer application to demonstrate the functionality of shortest path algorithms such as Dijkstra. The tool provides an interactive visualization of how algorithms work to find the most efficient path between points, featuring real-time WebSocket communication between the client (React) and server (Node.js with Express). This project showcases a strong understanding of algorithmic implementation, client-server communication, and data visualization in a user-friendly interface. Utilized TypeScript, React, NodeJS, Express.js, Tailwind CSS.
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EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 12/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: Algorithms, Web Application Programming, Advanced Software Development, Web Applications Architecture and Frameworks

Engineer's degree in Computer science

National School of Applied Sciences, Al Hoceima, Morocco (06/2022)

Preparatory Cycle in Preparatory Cycle for Engineering Studies

National School of Applied Sciences, Al Hoceima, Al Hoceima (06/2018)