ABDELKABIR WATIL

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PROFILE

Innovative Software Engineer with over 6 years of expertise in developing scalable applications. Proven track record of leading Agile teams and implementing robust technological solutions through advanced software architecture. Skilled in crafting web applications for healthcare and digital asset management sectors, with a strong focus on full-stack development and project management.

EXPERIENCE

- **TT Technologies [🌐]**   *June 2019 - January 2025*
  Software Engineer   Tetouan, Morocco
  ◦ Implemented advanced event-driven architecture using RabbitMQ to process real-time medical device events, ensuring seamless data synchronization and reliability.
  ◦ Designed and developed RESTful APIs adhering to strict specifications, enabling efficient data retrieval and management across multiple healthcare platform modules.
  ◦ Created robust services for critical platform features including:
    - Medication Management for medication scheduling, status tracking, and external verification integration systems.
    - Patient Management to handle secure patient data management, registration, and team assignment workflows.
    - Organization and team Management and settings management capabilities.
  ◦ Engineered automated data processing pipelines to update databases in real-time based on incoming medical device events.
  ◦ Implemented comprehensive testing strategy, including unit and end-to-end tests using Cypress and Testcafe.
  ◦ Developed responsive and intuitive user interfaces for multiple platform features using Angular, improving user experience and engagement.
  ◦ Built reusable component libraries and established consistent design patterns.
  ◦ Implemented robust state management solutions using NgRx and RxJS.
  ◦ Debugged and troubleshot production issues, working closely with the operations team to resolve them in a timely manner.
  ◦ As Core team Scrum master, facilitated daily scrum meetings, sprint planning, and retrospectives, ensuring smooth project execution and cross-functional collaboration.

- **Saphir Systems [🌐]**   *January 2019 - May 2019*
  Project Engineer   Casablanca, Morocco
  ◦ Developed and maintained web and mobile applications for banking sector clients.
  ◦ Ensured cross-platform compatibility and responsive design across multiple devices.
  ◦ Provided technical consulting and best practices recommendations to clients.
  ◦ Collaborated with QA team to ensure applications met end-user needs.

EDUCATION

- **École Hassania des Travaux Publics (EHTP)**   *2015 - 2018*
  Electrical Engineering Degree   Casablanca, Morocco
- **Lissane Eddine Ben Lkhatib High School**   *2013 - 2015*
  Preparatory Classes Maths/Physics   Laayoune, Morocco
- **Aljadida High School**   *2010 - 2013*
  High School Diploma (Mathematics)   Tata, Morocco

TECHNICAL SKILLS

- **Programming Languages:** Scala, JavaScript, Java, Python, C, C++
- **Web Technologies:** Angular, React, NodeJS, Fastify, RxJS, NgRx
- **Database Systems:** MongoDB, PostgreSQL
- **Cloud & DevOps:** Azure, Kubernetes, GitHub CI, TeamCity
- **Testing:** Cypress, Unit Testing, End-to-End Testing
- **Mobile Development:** Ionic
- **Engineering Tools:** CYME, ETAP, CANECO, MATLAB, Simulink
- **Other Tools:** AutoCAD, Proteus, Xilinx, PVSyst, RETScreen Expert

NOTABLE PROJECTS

• **Logistics Route Optimization System** [⎔]
Tools: Spring Boot, Angular, TypeScript, Leaflet
  ◦ Developed a scalable route optimization system using savings algorithm for efficient delivery planning.
  ◦ Implemented interactive map visualization with real-time route tracking and status monitoring.
  ◦ Created modular architecture with standalone components and responsive design patterns.

• **Circuit Breaker Management System** [⎔]
Tools: C, Make
  ◦ Developed a digital protection system for three-phase circuit breakers with real-time monitoring.
  ◦ Implemented comprehensive protection algorithms for overcurrent, voltage, and temperature conditions.
  ◦ Created modular architecture with separate monitoring, protection, and control subsystems.

• **Traffic Sign Detection System** [⎔]
Tools: Python, Computer Vision, Deep Learning
  ◦ Implemented real-time classification using computer vision and deep learning.
  ◦ Achieved high accuracy in various lighting and weather conditions.

• **IoT Smart Systems**
Tools: ESP32, Arduino, Sensors
  ◦ Created smart monitoring systems for garage and weather conditions.
  ◦ Implemented real-time data collection and analysis.