FERYEL NEFFATI

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Software Engineer

Dynamic Software Engineer with over 3 years of professional experience, specializing in web development and system-level programming. Proficient in C++ and Java, with a solid understanding of OOP, data structures & algorithms and a demonstrated ability to adapt and excel in diverse coding environments. Skilled in deploying applications on cloud platforms like AWS and proficient in database management.

Languages: Java, JavaScript, C++
Web: HTML,CSS, AJAX, NodeJS, React
Web Services: RESTful APIs, SOAP, AWS Cloud Services
Framework: Spring, Express, Kafka, Hibernate
Database: MySQL, MongoDB, SQL server, Oracle, DynamoDB
Design Patterns: Singleton, Prototype, Builder, Factory, GoF pattern.
SDLC: Agile/Scrum
Tools: Maven, Eclipse, VS Studio, IntelliJ IDEA, Postman, Docker, Kubernetes, Jira, Git

WORK 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).*

Safran — Tunis, Tunisia
Software Engineer — *Apr 2022 - Jul 2023*
- Developed and optimized algorithms for data processing and analysis using C/C++ in a Linux environment to manage data workflows significantly enhancing system performance and maintaining IoT network connectivity using AWS services.
- Engineered and maintained the back-end infrastructure, leveraging WebSockets as an API and MySQL for real-time data exchange and persistent storage, improving data handling capabilities.
- Conducted thorough testing and debugging, using CANoe and CANalyzer ensuring reliable system operations and quick problem resolution.

Metechnics — Tunis, Tunisia
Software Engineer — *Dec 2020 - Mar 2022*
- Integrated Internet of Things (IoT) technologies with software systems to enhance the CNC machine's functionality, using ELT tools to streamline data processes, resulting in a 25% increase in machine productivity.
- Designed, tested, and implemented secure, efficient RESTful APIs and embedded software focusing on system reliability and real-time performance.
- Utilized GitHub to collaborate with team members to ensure consistent and error-free code deployments.

INTERNSHIP EXPERIENCE

Metechnics — Tunis, Tunisia
Mechatronics Engineer — *May 2020 - Nov 2020*
- Developed and optimized algorithms using C/C++ in a Linux environment significantly enhancing system performance
- Engineered and maintained back-end infrastructure, utilizing secure and efficient RESTful APIs for real-time hardware-software interaction and MySQL for data exchange and persistent storage.
- Integrated IoT network connectivity using AWS services to enhance the CNC machine's functionality, resulting in a 45% increase in machine productivity.

PROJECTS

Real state application
- Developed a web-based property management portal enabling house owners and customers to exchange information effectively Implemented Spring Security using JWT to safeguard user data.
- Engineered technology systems using Java, Spring Boot, JavaScript, CSS, React and Docker.

Hotel management application
- Automated hotel operations through a Java and Spring Boot-based application implementing features such as reservations, room management, billing, and customer services.
- Designed and implemented RESTful APIs focusing on stringent security protocols using Spring security.

Bank application
- Delivered essential functionalities like user registration, authentication, and financial transactions through a Banking Portal API utilizing Java, and Spring Framework.
- Integrated Amazon Web Services for scalability and reliability, utilizing EC2, DynamoDB, S3, and AWS API gateway.

EDUCATION

Maharshi International University — Fairfield, Iowa
Master Of Science in Computer Science — *Graduation Date: Aug 2026*

Enicarthage — Tunis, Tunisia
Engineering in Mechatronics — *Graduation Date: Sep 2019*