

Senoussi Al-Nadjib

Ottawa, Ontario, Canada (open to relocation)

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EXPERIENCE

Configuration Manager

Shared Services Canada

May 2024 - August 2024, Ottawa, ON

- Optimized configuration management processes by mapping **thousands of servers** to applications, significantly reducing manual effort and errors.
- Enhanced documentation workflows by detailing server-to-application mappings, leading to a **25% improvement** in troubleshooting efficiency.
- Designed CI/CD pipelines using tools for automating application deployment and decommissioning, achieving a **40% reduction** in deployment times.
- Led project timelines effectively, using tools like **JIRA** and **Slack** to manage task deadlines, resulting in an on-time completion rate of **95%**.

Frontend Developer

Service Canada

September 2022 - December 2022, Ottawa, ON

- Revitalized web UI by leveraging **React.js**, **Node.js** and **TypeScript**, resulting in a **25%** improvement in user engagement and elevated **UX** and visual appeal.
- Developed **dynamic, data-driven** web pages for real-time analytics visualization, empowering users with instant insights to make informed decisions.
- Achieved **94%** test coverage through rigorous **Java** backend testing using **JUnit**, proactively identifying and resolving issues to ensure system reliability.
- Produced and presented detailed daily analytics reports using **Excel**, delivering accurate and actionable insights to stakeholders for improved decision-making.

Software Developer

Royal Canadian Mounted Police

January 2022 - July 2022, Ottawa, ON

- Developed multiple internal applications with **Python**, **Java** and **C++**, optimizing employee workflows and simplifying daily tasks.
- Analyzed and optimized complex **SQL** queries to improve database performance and ensure data integrity across multiple applications.
- Documented codebases and workflows while leveraging **Git** for version control, ensuring smooth collaboration and efficient code management.
- Assisted in debugging and improving applications, identifying and resolving issues on **Windows**, **Unix**, and **Linux** environments.

SKILLS

Programming Languages: C++, Python, Java, JavaScript, TypeScript, SQL

API Development & Communication Protocols: RESTful APIs, TSOAP/GraphQL, OpenAPI/Swagger, Postman

Frameworks & Libraries: Django, React.js, Angular, Node.js, Spring Boot, Git

Soft Skills: Excellent communication skills, problem-solving mindset, Strong background in Agile/Scrum development

EDUCATION

Bachelor of Applied Science in Software Engineering

University of Ottawa

September 2020 - December 2024, Ottawa, ON

Relevant Coursework: Data Structures, Algorithms, Embedded Systems, Distributed Systems

PROJECTS

Customer Relation Management | Java, Spring Boot, React.js, TypeScript, MongoDB, PostgreSQL, Twilio, Docker, Azure

- Enabled businesses to connect with customers via Twilio's SMS gateway and perform bulk messaging, scheduled notifications, and response tracking.
- Implemented a secure real-time chat, allowing users to communicate directly with customers while maintaining safe interactions between components.
- Designed a microservices architecture, separating services to ensure modularity and high availability, following the domain-driven design methodology.
- Incorporated Azure Active Directory for secure user authentication, reinforcing data security and access control across the platform.

Hotel Room Booking Website | Spring Boot, React.js, TypeScript, Java, Docker, PostgreSQL, WebSocket

- Developed a comprehensive hotel booking platform that enables users to search for available rooms, make reservations, and complete payments online.
- Implemented a user-friendly interface with ReactJS, allowing customers to filter rooms by amenities, price, and availability for an efficient booking experience.
- Utilized Spring Boot for backend services to handle reservation processing, payment integration, and user authentication, ensuring secure transactions.
- Leveraged PostgreSQL for efficient data storage and retrieval, enhancing performance for searches and booking history tracking.

Basketball Match Predictor | Python, TensorFlow, Scikit-Learn, Django, React.js, Pandas

- Developed a web application that predicts a basketball match's results for an upcoming game based on historical data and current conditions.
- Built the server-side logic with Django, handling data processing, model inference, and API services to deliver predictions to the frontend.
- Designed a user-friendly interface using React.js, allowing users to input game parameters and view predicted stats such as points, rebounds, and assists.