

# Senoussi Al-Nadjib

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## EDUCATION

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### Bachelor of Applied Science in Software Engineering

University of Ottawa

September 2024 - December 2024, Ottawa, ON

**Relevant Coursework:** Data Structures, Algorithms, Database Systems, Distributed Systems, Software Architecture, Machine Learning

## SKILLS

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**Programming Languages:** Java, Python, JavaScript, SQL, TypeScript

**Frameworks & Tools:** Django, Spring Boot, React.js, Docker, PostgreSQL, WordPress, Git, CI/CD pipelines

**Software Development:** Database Design, Microservice Architecture, REST APIs, QA, AGILE methodology

**Soft Skills:** Team collaboration, clear communication, problem-solving, adaptability, time management, critical thinking, attention to detail

**Languages:** Fluent in French and English

## EXPERIENCE

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### Configuration Management Intern

Shared Services Canada

May 2024 - August 2024, Ottawa, ON

- Optimized configuration 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 efficiency.
- Designed CI/CD pipelines using tools for **automating** 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 Intern

Service Canada

September 2022 - December 2022, Ottawa, ON

- Revitalized web UI by leveraging **React.js**, **Node.js**, and **TypeScript** and elevated **UX and visual appeal**.
- Developed **dynamic, data-driven** web pages for **real-time** analytics visualization, empowering users with instant insights.
- Enhanced backend integration for a **React.js** dashboard, reducing **API** response times through collaboration with **Java/Spring Boot** teams.
- Achieved **94%** test coverage using **jUnit** for backend services, ensuring reliability for **10K+** daily users.
- Utilized **PostgreSQL** for real-time data processing, enabling dynamic visualization of financial metrics.

### IT Support

Royal Canadian Mounted Police

January 2022 - July 2022, Ottawa, ON

- Provided technical support to end-users by troubleshooting **software issues**, achieving an average resolution time of under **3 minutes**.
- Assisted in setting up and configuring **operating systems** and applications optimizing user experiences and ensuring system stability.
- Automated system diagnostics using **Python** and **PowerShell**, improving ticket resolution rates by 20%.
- Managed **Active Directory** permissions and **PKI certificates**, ensuring 100% compliance with security protocols.

## PROJECTS

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

- Integrated Twilio's SMS gateway for bulk messaging, scheduled notifications, and customer response tracking.
- Built secure real-time chat with encrypted component interactions for direct user-customer communication.
- Designed modular microservices architecture (domain-driven design) to ensure high availability and scalability.
- Enforced authentication via Azure AD, strengthening platform-wide security and access control.

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

- Created a platform enabling online room searches, reservations, and secure payments.
- Implemented Spring Boot backend for reservation processing, payment integration, and authentication.
- Optimized PostgreSQL for fast data retrieval, improving search performance 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 an interface using React.js, allowing users to input game parameters and view predicted stats such as points, rebounds, and assists.
- Provided visual analytics, such as key contributing factors, to enhance user decision-making and engagement.