

# Mohamed Dahir

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## EDUCATION

### Carleton University

*Bachelor of Arts in Computer Science: Artificial Intelligence and Machine Learning*

Ottawa, ON

Sep. 2020 – May 2025

## TECHNICAL SKILLS

**Languages:** GO, React, Java, JavaScript, TypeScript, C++, C, MySQL, Express, Angular, NestJs, TypeORM, Python, RxJS, Git

## EXPERIENCE

### Full Stack Developer

May 2023 – Aug 2023

*VectorSolv*

*Ottawa, ON*

- Engineered a transformative warranty table feature with Angular, RxJS, NestJs, and TypeORM, enhancing user experience, fortifying security, and improving decision-making.
- Enhanced security by seamlessly integrating permission checks with Angular and NestJs, ensuring the utmost protection of confidential data and fostering trust in the product's security framework.
- Leveraged Angular and NestJs to efficiently spotlight Distributor information within Warranty Product, enhancing user engagement and comprehension while enabling more informed decision-making
- Strategically resolved critical bugs across customer and admin portals with Angular, NestJs, RxJS, and TypeORM, significantly improving user experience, product stability, and overall success.

### Software Engineer

Jan 2023 – Apr 2023

*Snow Software*

*Ottawa, ON*

- Implemented a Limit Login Feature using Java, allowing admin users to configure fail attempt limits, and rigorously tested it with EasyMock, resulting in elevated security and enhanced system resilience.
- Led system upgrades for Apache Tomcat and Guacamole, optimizing performance, seamlessly integrating them into GCP's cloud infrastructure, and achieving a 70% process enhancement.
- Collaborated with the QA team to rectify user-reported bugs using Java and EasyMock, ensuring product alignment, stability, and customer satisfaction

### Data Analyst

May 2022 – Aug 2022

*Statistics Canada*

*Ottawa, ON*

- Developed a centralized SQL Database to optimize data storage and accessibility, streamlining data management for the Customer Success team, expediting data-driven decision-making, and enhancing their processes by 100%
- Streamlined data-to-report processes by automating Power BI report connections through Power Automate, ensuring accurate and efficient customer data capture.
- Designed real-time Interactive Dashboards using Power BI and Power Automate, informing senior leadership's decisions, shaping Data Analytics as a service, and facilitating the budgeting of millions of dollars in funding.

## PROJECTS

### OMNIWATCH | *Python, React, Solace PubSub+ Event Broker, MQTT Protocol*

March 2024

- Led the OmniWatch project to victory at uOttaHack 6, by innovating an advanced Python and React-based security management system, achieving real-time building entry logging and instant updates
- Architected the integration of Solace PubSub+ Event Broker and MQTT protocol, establishing real-time, bidirectional communication between the backend and React front-end for the OmniWatch system, enabling dynamic tracking of user movements and significantly enhancing monitoring and analytical capabilities.

### Hack The Hill | *MongoDB, Express.js, React.js, and Node.js*

March 2023

- Secured 3rd Place and Best User Experience at Ottawa's largest Hackathon by developing a user-centric, MERN-based task management application within 36 hours, demonstrating exceptional technical and design capabilities in high-stakes environments.
- Enhanced application security and user access flexibility by seamlessly integrating Microsoft OAuth, paving the way for advanced integrations with Graph API and Power Apps, thereby optimizing management processes for large retail operations.