

Mohamed Dahir

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EDUCATION

Bachelor of Computer Science Major

Carleton University • Ottawa, ON • 2025 • 10.22/12

EXPERIENCE

Full Stack Developer

VectorSolv

May 2023 – August 2023, Ottawa, ON

- Seamlessly integrated a transformative feature—the warranty table page—providing users with an immersive view of warranties. Employed Angular, RxJS, NestJs, and TypeORM to implement dynamic pagination, intricate filters, and efficient search functionalities. This effort culminated in an enhanced user experience, amplifying application usability and seamlessly facilitating warranty exploration within the application.
- Elevated security measures by seamlessly integrating comprehensive permission checks into the feature using Angular and NestJs. This strategic enhancement fortified the product environment, ensuring the utmost security and preventing unauthorized access to confidential data. This initiative culminated in fortified security measures and the meticulous protection of sensitive information, fostering a sense of trust in the product's security framework.
- Developed seamless updates spanning RestAPI calls, backend, and frontend components to spotlight Distributors within the context of Warranty. Leveraging Angular and NestJs, this enhancement elegantly showcased Distributor information, enhancing user engagement and comprehension. This optimization empowered users to effortlessly access and interpret vital data, fostering more informed decision-making.
- Strategically tackled and remedied numerous bugs spanning customer and admin portals, utilizing the dynamic capabilities of Angular, NestJs, RxJS, and TypeORM. This rigorous endeavor yielded noticeable enhancements in user experience and a significant boost in product stability, amplifying user satisfaction and cultivating a more robust, adaptable, and ultimately successful product.

Software Engineer

Snow Software

January 2023 – April 2023, Ottawa, ON

- Developed a Limit Login Feature using Java, empowering admin users to fortify product security by configuring fail attempt limits. Thoroughly tested the feature with EasyMock, resulting in an elevated security stance and enhanced system resilience.
- Led comprehensive system upgrades for Apache Tomcat and Guacamole, optimizing performance, while orchestrating seamless integration within the GCP cloud infrastructure. This strategic effort elevated system reliability, fostering smoother operations in the GCP environment and enhancing overall infrastructure efficiency.
- Engineered a versatile URL truncation method in Java, seamlessly integrated throughout the product to enhance user experience. Thoroughly validated the solution using EasyMock, resulting in cleaner and more user-friendly URLs, leading to improved navigation and heightened overall satisfaction with the product.
- Collaborated closely with the QA team to rectify user-reported bugs using Java and EasyMock. This strategic effort guaranteed alignment of the product with customer requirements, bolstering product stability and elevating customer satisfaction through a seamless user experience.

Data Analyst

Statistics Canada

May 2022 – December 2022, Ottawa, ON

- Developed a centralized SQL Database to optimize data storage, accessibility, and analysis capabilities for Data Analytics as a service. This initiative streamlined data management for the Customer Success team, resulting in expedited query response times and facilitating more effective data-driven decision-making.
- Streamlined data-to-report processes by automating Power BI report connections through Power Automate, ensuring accurate and efficient customer data capture.
- Empowered senior leadership with real-time, visually compelling Interactive Dashboards, crafted using Power BI and Power Automate. This strategic initiative provided reliable data for informed decision-making, instrumental in shaping the trajectory of Data Analytics as a service.

PROJECTS

Retail Flow: Hackathon Project

HackTheHill Hackathon • March 2023 – March 2023

- Secured 3rd Place and Best User Experience in Ottawa's largest Hackathon, competing against over 1200 participants, with our web-based task management application. This achievement underscored exceptional technical and design prowess, demonstrating the capacity to deliver user-centric solutions that shine in high-stakes, large-scale events.
- Developed an agile web-based task management app using the MERN stack, optimizing associate management for large retail stores. Crafted within a 36-hour window, the app meticulously outlined daily requirements and provided a comprehensive view of store performance, highlighting the synergy between technology and collaborative effort.
- Seamlessly implemented Microsoft OAuth, fortifying secure and authorized access to Microsoft services. This strategic move also paved the way for potential future integration with Microsoft's Graph API and Power Apps, enhancing security measures and broadening access possibilities.
- Engineered a dynamic Kanban board interface, leveraging API integrations to fetch user tasks from MongoDB in real-time. This strategic approach enhanced task management efficiency, providing users with a seamless, responsive visualization that optimized productivity and workflow.

SKILLS

C++, C, Python, Java, JavaScript, HTML5, CSS, SQL, express.js, Angular, RxJS, NestJs, TypeORM, Git