

Abdillahi Nur

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EXPERIENCE

Software Developer/Analyst

February 2020 – Present

Canada Revenue Agency | *Java, JavaScript, Angular, Struts, Spring, Maven, Ant, Jenkins*

Ottawa, Ontario

- Led full-stack development of the Child and Family Benefits Calculator, a browser-based tool that enables users to estimate their eligibility and entitlements for various government benefits, handling over 20,000 daily users for real-time benefit calculations.
- Developed RESTful APIs in Java and Spring to manage data flow between the front-end and the PostgreSQL database, improving communication and reducing response times by 20%.
- Implemented secure authentication mechanisms using OAuth 2.0 and JWT, ensuring data protection and compliance with CRA security standards.
- Collaborated closely with DevOps to automate deployment pipelines using Jenkins, Maven, and GitLab CI, streamlining integration, testing, and production rollouts.
- Enhanced performance and usability by optimizing both front-end UI and back-end processing, resulting in a 15% improvement in system efficiency.

Software Developer Intern

January 2019 – April 2019

Carleton University - Integrated Autonomous Vehicle | *Python, PyBluez, Arduino, Java*

Ottawa, Ontario

- Developed the Integrated Beacon Network for real-time location tracking of autonomous vehicles using Arduino-based systems.
- Improved Bluetooth communication protocols, enhancing network reliability and expanding connection range for more consistent vehicle-beacon interactions.

Software Test Intern

September 2017 – April 2018

Carleton University - SQUALL Lab | *Python, Java, C++, HTML, Docker*

Ottawa, Ontario

- Authored automated test scripts and used clone frequency analysis in test codebases, contributing to a published research study.
- Simulated multi-environment test conditions using Docker, improving testing accuracy and efficiency across various platforms.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Matlab, AWS Cloud Developer Kit

Frameworks/Libraries: : React, Next.js, Angular, Node.js, JUnit, PyBluez, Django, Express.js, Passport.js

Developer Tools: Git, Docker, Heroku, Jupyter Notebook, Maven, Ant, Jenkins, AWS CDK

EDUCATION

Carleton University

Ottawa, Ontario

Bachelor of Engineering in Software Engineering

PROJECTS

🔗 GetawayGenius - AI-Powered Vacation Itinerary Planner | *JavaScript, React, Google Firebase, PostgreSQL*

- Developed an AI-powered web application using React and Google Generative AI API to generate personalized, real-time vacation itineraries based on user preferences.
- Implemented a secure user authentication system and integrated persistent data storage with Firebase and PostgreSQL.
- Optimized the UI for a seamless user experience, improving performance and responsiveness across mobile and desktop platforms.

🔗 DuaConnect - Islamic platform for shared prayers | *Next.js, Supabase, OpenAI*

- Developed DuaConnect, a platform enabling users to request and offer prayers in a supportive community, utilizing Next.js for optimized performance and seamless user experience.
- Integrated Supabase for scalable real-time features, including PostgreSQL-based data storage and user authentication, ensuring secure and seamless user interactions.
- Leveraged OpenAI to enhance the prayer experience by providing intelligent, AI-driven interactions that facilitate meaningful community engagement.