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 the 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, scaling to over 20,000 daily users.
- Developed a web-based tax benefit estimator, enabling users to calculate eligibility for new tax benefits such as the Canada Dental and Housing Benefits. Implemented this as part of a browser-based application used by millions of Canadians.
- Refactored legacy Java applications into modern Angular-based architecture, improving scalability and reducing technical debt.
- Identified performance bottlenecks in the back-end codebase, leading to a 15% improvement in system efficiency.
- Collaborated with cross-functional teams to integrate new features into the Canada Revenue Agency's (CRA) My Account portal, which serves as the primary platform for millions of Canadians to access and manage their tax information.

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: React, Next.js, Angular, Node.js, JUnit, PyBluez
Developer Tools: Git, Docker, Heroku, Jupyter Notebook, Maven, Ant, Jenkins
Libraries: Matplotlib, LibGDX, Express.js, Django, Passport.js

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.