Kanav Sharma

📞 647-544-0452   ✉ kanav.12@hotmail.com   in linkedin.com/in/kanav-s   ⊙ github.com/k4n4v

Technical Skills

Languages: Python, C, Java, HTML/CSS, JavaScript, SQL, MATLAB, VHDL, ARM/MIPS Assembly
Developer Tools: React.js, Git, Docker, Postman, PostgreSQL, Django, OpenCV, PyTest, pandas, Selenium, Appium
Industry Knowledge: CI/CD, REST APIs, Operating Systems (Linux, UNIX), Scripting, Networking Fundamentals, Embedded Systems, Software Development Lifecycle

Education

University of Guelph   **Apr 2024**
Computer Engineering (Co-op), Bachelor of Engineering (BE)   *Guelph, Canada*

Work Experience

Tulip   **Sept 2023 – Dec 2023**
QA Engineer (Co-op)   *Kitchener, Canada*

- Performed daily regression tests, formulated effective test plans, managed team sprint tickets, and collaborated with developers to test and debug pre-merge changes for clienteling and POS iOS applications.
- Contributed to the redesign of an iOS app, offering innovative ideas, ultimately improving user experience.
- Recognized an in-app email template formatting issue and improved feature by reducing latency to send mass emails **from 240s down to 12s.**
- Identified a major security vulnerability bug prior to deployment, **safeguarding 70+ client's** sensitive information.

CodeRise Technologies Inc.   **July 2023 – Aug 2023**
Software Developer Intern   *Brampton, Canada*

- Developed REST APIs for a subscription-based Shopify app using Python, while performing code reviews.
- Reviewed client feedback and suggestions, incorporating requested features and delivering bug fixes to enhance product functionality and address user concerns.

Molex   **Jan 2022 – Aug 2022**
Software Developer In Test (Co-op)   *Waterloo, Canada*

- Independently developed and debugged automation test code within a CI/CD pipeline **achieving 90% front-end and 50% back-end coverage** using Python, Selenium, and Appium, while performing functional/non-functional testing.
- Improved desktop app functionality and stability by **automating 32 manual tests** and **identifying 8 critical bugs**.
- Merged 3 testing repos into 1 by introducing Virtual Environments (pyenv) enhancing version management, multi-app testing, code reusability, and more efficient bug tracking across multiple applications.

Quartic.ai   **May 2021 – Aug 2021**
Full Stack Engineer (Co-op)   *Toronto, Canada*

- Designed and developed REST APIs for an AI industrial process optimizer using Python, React, pandas, and Django.
- Improved UI by integrating a front-end graph visualization feature, enabling users to visually analyze complex data.
- Utilized PostgreSQL for database management, making modifications to tables and SQL queries as needed.
- Optimized Docker container configuration files for deployment by automating certification verification process, **improving portability and ease of use by 50%.**

Projects

Early Alzheimer's Detection Device Capstone *(Python, OpenCV, MATLAB, CAD, Git)*   **Jan 2024 – Apr 2024**

- Lead developer in a team of 4 to design, engineer, and prototype an optometrist device for early Alzheimer's detection.
- Utilized a webcam for eye tracking, employed Python with OpenCV to determine the pupil's location, and used MATLAB for plotting and analyzing over 700 data points collected per trial.

Spotify Lyrics Translator *(Python, Git)*   **Dec 2023**

- Utilized 3 APIs to translate lyrics, with the song being sourced via Spotify link, lyrics fetched from Genius, and translation performed using Google Translator with the capability to pick from 133 languages.

Personal Website *(React.js, JavaScript, HTML/CSS, Node.js, Git)*   **May 2023**

Real-Time Motion Sensor Security Camera System *(C, ARM, FreeRTOS, Embedded System)*   **Nov 2022**