

# Kanav Sharma

☎ 647-544-0452 ✉ kanav.12@hotmail.com 🔗 [linkedin.com/in/kanav-s](https://www.linkedin.com/in/kanav-s) 🐙 [github.com/k4n4v](https://github.com/k4n4v)

## Skills

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**Languages:** Python, C, C++, Java, HTML/CSS, JavaScript, SQL, MATLAB, VHDL, ARM/MIPS Assembly  
**Developer Tools:** Git, React, Node.js, Docker, Postman, PostgreSQL, Django, OpenCV, pandas, Selenium, Appium  
**Industry Knowledge:** CI/CD, REST APIs, Scripting, SaaS, Distributed Systems, SDLC, Real-Time Systems, OS

## Education

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### University of Guelph

Computer Engineering (Co-op), Bachelor of Engineering (BE)

Jun 2024

Guelph, ON, Canada

## Work Experience

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### Tulip

QA Engineer (Co-op)

Sept 2023 – Dec 2023

Kitchener, ON, Canada

- Executed daily regression tests and managed sprint tickets, resulting in 8 major updates to clienteling and POS iOS applications by collaborating with developers to test and debug pre-merge changes.
- Reduced in-app email latency from 240s to 12s by implementing batch processing, which improved mass email delivery speed, and identified a critical security vulnerability pre-deployment, safeguarding sensitive information of 70+ clients.

### CodeRise Technologies

Software Developer Intern

July 2023 – Aug 2023

Brampton, ON, Canada

- Developed REST APIs for a subscription-based Shopify app using Python, which improved the app's functionality and performance by 30%, while conducting 10+ code reviews.
- Implemented 3 feature requests and fixed 7 bugs, leading to a 30% increase in positive user reviews and a significant boost in overall product functionality.

### Molex

Software Developer In Test (Co-op)

Jan 2022 – Aug 2022

Waterloo, ON, Canada

- Developed and debugged automation test code within a CI/CD pipeline using Python, Selenium, and Appium, resulting in 90% front-end and 50% back-end test coverage that improved testing efficiency and accuracy.
- Automated 32 manual tests and identified 8 critical bugs, which enhanced desktop app functionality and stability; merged 3 testing repositories into 1 using Virtual Environments (pyenv), increasing code reusability and bug tracking.

### Quartic.ai

Full Stack Engineer (Co-op)

May 2021 – Aug 2021

Toronto, ON, Canada

- Developed REST APIs using Python, pandas, and Django for a medical AI process optimizer, enabling the processing of large data sets from Excel files and resulting in enhanced system integration and functionality.
- Integrated a responsive front-end graph visualization feature using React and GraphQL, leading to a 40% improvement in data insights and enabling users to visually analyze complex data.
- Automated Docker certification verification, improving portability and ease of use by 50%, and optimized PostgreSQL tables and SQL queries, ensuring efficient data handling.

## Projects

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### 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.
- Presented the device at a trade show, earning 2nd place with positive feedback and interest from industry professionals.

### 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.

### Real-Time Motion Sensor Security Camera System (C, ARM, FreeRTOS, Embedded System)

Nov 2022

- Programmed a microcontroller to interface with a PIR motion sensor and an Arduino camera, setting the screen to display the live feed and record when motion was detected and to remain off otherwise to reduce battery consumption.