

Pasindu Danthanarayana

pasindud.com

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EDUCATION

- **University of Waterloo**

BASc, Computer Engineering;

Waterloo, ON

Sept 2024 – June 2029

SKILLS

- **Languages:** C++, Python, JavaScript, HTML/CSS, SQL
- **Technologies:** ReactJS, Django, Node.js, PostgreSQL, Express.js, PyTorch, OpenCV, Linux

EXPERIENCE

- **Nokia**

Software Test Automation Developer (Co-op)

Kanata, ON

Apr 2025 – Aug 2025

- Developed backend test automation for IXR and Y.1564 resync policies using **JavaScript Mocha framework**, increasing test coverage by **30%** and enabling seamless support for 4+ router families across 10+ NSP releases
- Diagnosed query errors in Y.1564 template automation by analyzing database structure with **DBeaver** and implemented fixes in **PostgreSQL**, ensuring accurate data retrieval across **140+ test steps**
- Developed custom cloud-based workstation scripts to introduce CAM bundle-based installation and also overcome sync failures, streamlining **120+** cron tasks and sanity runs while saving **20+ minutes** of setup effort per run

- **Nokia**

Future Tech Intern

Kanata, ON

Jul 2023 – Aug 2023

- Developed **Radish-bdd** and **Selenium** scripts to automate the testing of a Cloud Managed SD-WAN service, improving the dependability of page elements and API requests
- Leveraged **Cucumber Reports** to identify and resolve failures in feature files, improving the efficiency of test steps
- Introduced configuration tools like **JSON** to index HTML element IDs for Selenium, reducing redundancy and streamlining the automation workflow for large-scale testing
- Reviewed **Jenkins** pipelines to troubleshoot build issues and report findings to my mentor, ensuring successful deployments

PROJECTS

- **Crate**

A mobile app that lets you track kitchen inventory by taking pictures of grocery receipts

- **Fine-tuned** a Donut model to classify fields from grocery receipt images using a refined CORD dataset of 1000+ annotated images
- Built a receipt image processing pipeline using **Flask** to host model inference and integrated OpenAI for JSON cleanup
- Created a relational database using **PostgreSQL** to store inferred expiry dates, quantities, storage locations, and recipes generated using the **Spoonacular API**
- Implemented secure and seamless third-party authentication using **Google OAuth**, and provided a simple **onboarding** process to allow users to customize their experience based on dietary preferences
- **Tools/Libraries:** React Native, Flask, ClovaAI Donut Model, PostgreSQL, Spoonacular API, OpenAI, Node.js

- **mindfulAI**

A productivity web app that optimizes schedules using AI

- Developed a **React** application that leverages AI to seamlessly organize and schedule tasks
- Implemented a secure authentication system with password encryption and hashing, and stored user information in server-side sessions
- Integrated GPT-4o model to determine the **optimal** time to schedule a user's task based on their **existing** schedule
- Built an intuitive calendar component from scratch to allow users to easily access and schedule their tasks
- **Tools/Libraries:** ReactJS, MongoDB, Express.js, Node.js, PrimeReact, OpenAI API