Pasindu Danthanarayana

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EDUCATION

- **University of Waterloo** — Waterloo, ON
  BASc, Computer Engineering; — *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** — Kanata, ON
  Software Test Automation Developer (Co-op) — *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 and fixed **PostgreSQL** query errors in Y.1564 template automation by analyzing database structure with **DBeaver**, ensuring accurate data retrieval across **140+ test steps**
  - Developed custom cloud-based workstation scripts to introduce CAM bundle-based installation and overcome sync failures, streamlining **120+** cron tasks and sanity runs while saving **20+ minutes** of setup effort per run

- **Nokia** — Kanata, ON
  Future Tech Intern — *Jul 2023 – Aug 2023*
  - Developed **Radish BDD** and **Selenium** scripts to automate the GUI testing of 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, PyTorch, PostgreSQL, Spoonacular API, OpenAI, Node.js

- **mindfulAI**
  A productivity web app that optimizes schedules using AI
  - 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