

# SARTHAK SETHI

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🌐 Portfolio

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## EDUCATION

### University of Waterloo

Honours Bachelor of Computer Science

Waterloo, ON

Sep 2024 – May 2029

## TECHNICAL SKILLS

**Languages & Web:** Python, C/C++, Bash, R, JavaScript, SQL, HTML/CSS

**APIs/Frameworks:** FastAPI, Flask, React, Node.js, REST API, OpenAI API, React Router, Tailwind CSS

**Tools & Technologies:** Pandas, OpenPyXL, SQLAlchemy, SQLite/PostgreSQL, AWS (EC2, S3), Render, Docker, Uvicorn, Jest, MySQL, Git, Figma, Canva, Power BI, Cursor, Pear AI, GitLab, Jenkins, Powershell, CI/CD

## WORK EXPERIENCE

### Software Developer, Danier

Jun 2025 – Aug 2025

Toronto, ON

- Developed a **custom chatbot** with **FastAPI (Python)**, **React**, and **Tailwind CSS**, integrating FAQ/product search, analytics hooks, and caching for faster and more reliable responses across the site.
- Built a **Low-Stock Alert System** using **FastAPI**, **SQLAlchemy**, and **Pandas/OpenPyXL**, sending automated **HTML email alerts** to stakeholders and improving on-page **SEO** to boost visibility in search rankings.

### Front-End Developer, Prompt Solutions

Aug 2023 – Jul 2024

India

- Delivered a **HIPAA-compliant** healthcare platform using **React (Redux)** and **Flask** on **AWS EC2**, integrating APIs for emergency services and ensuring a smooth, secure, and scalable patient experience.
- Launched the platform to **5000+ users**, improving emergency response efficiency by **32%** through optimized **UI components** and **backend microservices** designed for speed and reliability.

### Software Engineer, Nokia

Jun 2023 – Jul 2023

India

- Modernized bug tracking with **Node.js/Express** and optimized **PostgreSQL** queries, significantly reducing load times by **47%** and improving overall database query performance for internal tools.
- Created **React** dashboards with **D3.js** visualizations, containerized with **Docker** for deployment and consistent results across all developer environments.

## PROJECTS

### Ⓜ Muse Sketch Studio | *React, TypeScript, Node.js/Express, Replicate API, Tailwind CSS*

Toronto, ON

- Won 1st Place at the **Replicate AI Hackathon (2025)**, awarded \$1,000 cash and \$500 Amazon gift card among **100+** participants.
- Built an AI-driven design pipeline (**prompt → sketch → colorization → model → runway**) using **google/nano-banana** for sketches/colors and **google/veo-3** for runway video synthesis.
- Developed a full-stack solution with **React + TypeScript** frontend and **Node.js/Express** backend, integrating Replicate API for secure generation and export of **PNG/MP4 outputs**.

### Ⓜ Danier Custom Chatbot | *FastAPI, React, Tailwind CSS, OpenAI API*

Toronto, ON

- Developed an **AI-powered chatbot** with **FastAPI (Python)** backend and **React/Tailwind** frontend, auto-syncing every 6 hours with **Shopify** product CSVs to update prices, descriptions, and availability in real time.
- Parsed and cleaned unstructured **Shopify CSV** data to extract missing **image URLs** and normalize product attributes, enabling accurate product search alongside a curated FAQ knowledge base.
- Integrated caching, retry logic, and secure API key management, achieving 72% uptime with sub-second response times for both FAQ and product queries.

### Ⓜ Danier Low-Stock Alert System | *FastAPI, SQLAlchemy, Pandas, Gmail SMTP*

Toronto, ON

- Built an **automated inventory monitoring system** with **Python, FastAPI, SQLAlchemy**, parsing **Shopify CSV exports** to detect products below threshold stock levels and trigger **instant alerts**.
- Generated **HTML email alerts** with product names, images, and variant details using **Gmail SMTP**, ensuring proactive restocking before sellouts.
- Deployed on **Render** with persistent disk, multi-worker **Uvicorn**, and health checks, achieving 100% reliability in alert delivery.

### Ⓜ Personal Portfolio Website | *React.js, HTML, CSS, JavaScript*

Waterloo, ON

- Developed a responsive personal portfolio using **React.js, HTML, CSS**, and **JavaScript** to showcase projects, experience, and skills with fast load times and smooth navigation.
- Implemented basic **SEO optimization** and integrated GitHub/LinkedIn links for recruiters' quick access.

### Ⓜ CarRaksha - Safe Driving System | *C++, Arduino*

India

- Won 1st Prize at the **All India Techfest Hackathon**, competing against **100,000+ students nationwide**.
- Developed a **collision-prevention system** with **Arduino, ultrasonic sensors, and MQ-3 alcohol sensors**, integrating ignition lockout and speed-limiting features to mitigate impaired driving risks.
- Tested across **10+ vehicle models**, achieving **79% reliability** with modular hardware adaptable to multiple configurations.

### Ⓜ GIM - Guard in Motion | *Python, ML*

India

- Developed a **wearable safety device** integrating **GPS, motion sensors, microphone, and camera** to enable real-time location tracking, live **audio/video streaming**, and **emergency alerts** directly to designated contacts.
- Implemented intelligent motion and **gyro-based triggers** to auto-start recording on sudden impact or abnormal movement, with secure cloud storage, real-time encoding, and minimal data loss during network disruptions.