

# Sameer Karodia

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## EDUCATION:

Ontario Tech University

September 2023- April 2027

Bachelor of Engineering - Software Engineering (GPA: 4.06 / 4.3)

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## TECHNICAL SKILLS:

**Languages:** C++, CSS, HTML, Java, JavaScript, Matlab, PHP, Python, React, SQL, Typescript

**Technologies:** Bootstrap, Docker, FastAPI, Git, GitHub, Gitea, Grafana, Jenkins, jQuery, Kubernetes (k3s), MySQL, Node.js, OpenCV, ReactJS, Redis, TensorFlow

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## RELEVANT EXPERIENCE:

Flex Developer | FedEx | Scarborough, ON

August 2024 - Present

- Developed and tested software to increase route efficiency by **15%** using **Dijkstra's** algorithm during delivery operations, which helped to improve daily delivery performance and reduce package delays
- Designed and implemented automated tracking **scripts** in Python to analyze delivery performance and improve workflow efficiency

DevOps Engineer Intern | Wouessi Inc. | Toronto, ON

February 2025 - April 2025

- Designed and implemented a full CI/CD pipeline using **Jenkins**, **Docker**, and **Kubernetes (k3s)**, automating builds, testing, and deployment for a full-stack Employee Management System
- Created and maintained **Dockerfiles** and Kubernetes manifests for both frontend (**React**) and backend (**Node.js/Express**) services, ensuring reliable multi-environment deployment
- Integrated **Gitea webhooks** with Jenkins to trigger pipeline executions on code commits, reducing manual deployments and streamlining team workflows

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## PROJECTS:

Carpooling Website | HTML, CSS, PHP, MySQL ([Github Link](#))

August 2024

- Developed a full-stack carpooling system enabling users to post and search for available trips, track previously taken and offered rides, and navigate an intuitive, user-friendly frontend for an enhanced ride-sharing experience
- Designed and visualized the user interface using a **Figma** prototype then used **HTML**, **CSS**, and **JavaScript** to create the front end, making it more intuitive and guaranteeing a clear and simple user experience across devices
- Worked on developing a fully functional **PHP** and **MySQL** backend, implementing **secure user authentication**, carpool ride postings, and a search feature, ensuring efficient data management and security.

Automotive Services Website | React, Typescript ([Github Link](#))

January 2025

- Developed a dynamic auto shop website using **ReactJS** and **TypeScript**, providing users with detailed information on detailing, brakes, tuning and more services
- Integrated and ensured a smooth **API-based** booking system (Booksy), enabling seamless online appointment scheduling for customers while allowing owner to update available time slots in real time
- Implemented modular and reusable components, improving maintainability and **scalability** of the application.

Mental Health AI Platform | React, FastAPI, MySQL ([Github Link](#))

February 2025

- Developed a full-stack **AI-powered** mental health application that helps users monitor stress levels, analyze emotions, and track journaling activities
- Implemented emotion detection via webcam (**OpenCV**) and **NLP-based** sentiment analysis; achieved **96%** stress prediction accuracy.
- Designed and built an event logging system that predicts stress levels based on upcoming events (e.g., exams, meetings), providing proactive coping strategies
- Integrated a **FastAPI-based** backend to handle AI analysis, user authentication, and secure data storage in **MySQL**, ensuring encrypted user information