

Shiv Kanade

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University of Toronto: Engineering Science '28 | GPA: 3.6/4.0

Work Experience

- **CerebriXOS – AI/ML Project Intern | Machine Learning & Data Analytics** Jan 2026 – Present
 - Developed AI driven agents integrated into end-to-end data and application workflows, leveraging Python based ML frameworks and agent orchestration patterns to enable rapid deployment of ML-powered systems.
 - Integrated new skills into an AI agent framework (OpenClaw), including a deterministic API-calling skill with JWT authentication, enabling secure, modular, and reproducible agent workflows.
- **Pocketride – App Development Intern | Full Stack SWE** Sept 2025 – Dec 2025
 - Developed and deployed a cross platform on-demand driver-rider matching application for iOS and Android using React, implementing core application workflows and user-facing features.
 - Built backend services and RESTful APIs with Node.js and PostgreSQL to manage rider-driver matching logic, data persistence, and real-time application state.
- **MaipleStar Solutions - SDK Integration | Backend SWE** May 2025 – Aug 2025
 - Built a modular Node.js middleware API with RESTful and WebSocket support, integrating PostgreSQL for reliable, high-throughput communication between hardware and cloud systems.
 - Developed Python scripts for automated testing, data validation, and real-time JSON data processing, streamlining synchronization workflows and improving throughput by 30%.
- **Amplicam Inc. – Wildfire Intelligence Dashboard | Full Stack SWE** May 2024 – Aug 2024
 - Developed and deployed a live wildfire monitoring platform by integrating NASA FIRMS real-time active fire feeds into a fully deployed full-stack web application.
 - Built a Node.js/Express backend to fetch, parse, and serve wildfire data, enabling seamless frontend integration. Prototyped wildfire prediction models using scikit-learn and datasets to forecast fire spread.

Extracurricular Experience

- **Mersivity – Engineering Research & Design Team (Led by Prof Steve Mann)** Sept 2025 – Present
 - Contributing to advanced projects, including the conceptual design and early prototyping of a bipedal robotic system, integrating perception, control, and mechanical design considerations.
 - Developed an AI driven guitar training application using computer vision and biomedical wearable sensors (EEG, motion tracking); gathered data from 30+ participants, improving accuracy of feedback predictions by 20% and resulting in a peer-reviewed paper submitted to EMBC 2026.
- **University of Toronto Formula Racing Team - Machine Learning Researcher** Sept 2025 – Present
 - Developing and training deep learning models in Python to analyze and optimize vehicle performance.
 - Leveraging Python libraries such as PyTorch and TensorFlow; using Roboflow for computer vision data preprocessing, augmentation, and dataset management.

Relevant Coursework

ECE253, ESC190: Verilog & FPGA development, Logic circuits & processor design, Algorithms & data structures

Skills & Interests

- **Skills:** System Verilog, C, C++, Python, PyTorch, Java, PostgreSQL, React, MATLAB, Hardware Design,
- **Interests:** Sports, Rocketry, Machine Learning, Woodworking, Table Tennis, Weightlifting