





# Experience\_

CambioML San Francisco, USA

#### MACHINE LEARNING ENGINEER INTERN

Sep 2024 - Present

• Working on the ML team to improve LLMs through reinforcement learning from human feedback.

#### German Aerospace Center

Stuttgart, Germany

SOFTWARE ENGINEER INTERN

Jan 2024 - Apr 2024

- Gathered and pre-processed data from 100+ sensors in the RTA Climatic Wind Tunnel using SQL and Python to replicate extreme weather conditions.
- Developed a heat transfer tool using Python and Flask to calculate the optimal cooling capacity for rail vehicles.
- Built a real-time communication system for trains travelling through Berlin using OpenVPN, achieving a 40% latency reduction for event-based logs.
- Designed a fuel cell model utilizing Raspberry Pi to showcase EV charging solutions at the Hannover Messe 2024 Trade Fair to 200,000 attendees.

### Cineplex Entertainment

Toronto, Canada

SOFTWARE DEVELOPER INTERN

Jan 2023 - Apr 2023

- Established robust API security measures using OpenID Connect and OAuth 2.0 standards, reducing unauthorized access incidents by 99.9%.
- Spearheaded the company migration from manual to automated testing across 46 enterprise tools using Python and Robot Framework.

## **Tehama Technologies**

Ottawa, Canada

SOFTWARE DEVELOPER INTERN

May 2022 - Aug 2022

- Reduced the creation time of virtual work environments by 75% by automating cloud-service management using AWS CloudFormation and Docker.
- Handled 80,000+ logs daily by implementing a scalable logging and metrics pipeline with ElasticSearch, Fluentd, Kibana, Grafana, enabling real-time feedback on system failures and reducing storage costs by 12%

KitchenMate Toronto, Canada

SOFTWARE ENGINEER INTERN

Sep 2021 - Dec 2021

- Developed an intuitive frontend user interface for the kiosk's touchscreen using React.js and Typescript, reducing rendering times by 25%.
- Built a payment system for the kiosk using Stripe's API, supporting contactless payments and ensuring PCI compliance.
- Automated the cooking process for the Smart Cooker by implementing QR code dish recognition and live updates with the backend system.

MIT Driverless

Cambridge, USA

SOFTWARE ENGINEER INTERN

Jan 2021 - Apr 2021

- Built a Python and ROS-based computer vision model for autonomous race cars using data from GPS, LiDAR, radar, and camera sensors.
- Improved lap times by **30%** by implementing a real-time path planner in **C++** and **MATLAB** using one-to-one track cloning, automated lap timing, and collision detection algorithms, leading to top speeds of **171 mph** (275 km/h).

# Projects\_

### TextScanner | Next.js, TypeScript, Python, Flask, AWS

- Built and deployed a cloud-native document processing application using AWS S3, Lambda, Textract, and DynamoDB.
- Implemented user authentication, document search, batch uploads, text summarization, and an equation solver.

## Skills\_

• Programming Languages: C, C++, Java, Python, JavaScript, Go, Swift, MATLAB.

• Libraries/Frameworks/Tools: Node.js, React.js, MySQL, PostgreSQL, MongoDB, Django, Flask, Docker, Kubernetes, Linux.

## Education\_

### University of Waterloo B.A.Sc. in Computer Engineering

2020 - 2025

- Honours with Excellent Standing, GPA: 3.7
- 2024 JR Coutts International Experience Award recipient.
- · Coursework: Data Structures & Algorithms, Systems Design, Databases, Operating Systems, Networks, Distributed Computing.