

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 using **SQL** and **Python** from 100+ sensors in the RTA Climatic Wind Tunnel to replicate extreme weather conditions.
- Engineered a heat transfer calculation tool to determine the optimal cooling capacity for rail vehicles using **Python** and **Flask**.
- Built a real-time logging 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 to automated testing with **Python** and **Robot Framework** across **46 enterprise tools** including Workday and CRM.

Tehama Technologies

Ottawa, Canada

SOFTWARE DEVELOPER INTERN

May 2022 – Aug 2022

- Automated the management of virtual work environments hosted on **AWS CloudFormation** and **Amazon VPC** through custom Bash scripts.
- Built a scalable logging and metrics pipeline using **AWS S3**, **Elasticsearch**, **Fluentd**, and **Kibana** to detect system failure and process millions of logs daily.

MIT Driverless

Cambridge, USA

SOFTWARE ENGINEER INTERN

Jan 2021 – Apr 2021

- Built a **C++** and **ROS**-based path planner for autonomous race cars using data from **GPS**, **wheel encoders**, **LiDAR**, **radar**, and **camera sensors**.
- Designed a racing line optimizer in **C++** and **MATLAB** using track cloning, point mapping, automated lap timing, and boundary and collision detection, improving lap times by 30%.

Projects

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

[github](#)

- 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

- Languages:** C, C#, C++, Java, Python, JavaScript, TypeScript, Scala, Go, Dart, MATLAB.
- Data:** NumPy, Pandas, PyTorch, TensorFlow, Matplotlib, Scikit-Learn, SQL, MySQL, Postgres, Sequelize, MongoDB, Redis.
- Frameworks:** Node, Express, Next, React, React Native, Angular, Flutter, Django, Flask, Apache Spark, Apache Kafka.
- DevOps:** AWS, Azure, Firebase, Docker, Kubernetes, Selenium, Vercel, Grafana, Kibana, Bash, Linux, Git, HTTP, Heroku, Jira.

Education

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

Sep 2020 – Apr 2025

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

Centre of Excellence in Next Generation Networks Machine Learning with Python Certification

May 2022 – Aug 2022

- Coursework: Supervised & Unsupervised Learning, Clustering, Dimensionality Reduction, Association Learning, Deep Learning.