

# ALI AZIMI

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## CORE COMPETENCIES

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- Applied knowledge of ROS, MuJoCo, and sim-to-real transfer techniques through academic research
- Experienced in training and deploying production models on GCP
- Proficient in PyTorch and JAX
- Experienced in developing production-ready training code using MLflow
- Experienced in performance optimization using CUDA and Just-in-Time compilation techniques

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, C++, C, C#, JavaScript, Rust, Java, LaTeX
<b>Libraries</b>	PyTorch, JAX, TensorFlow, React, Node.js, Pandas, NumPy, CUDA, MuJoCo
<b>Databases</b>	MySQL, SQLite, MongoDB

## PROJECTS

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**PPO in JAX** July 2025 – Present  
<https://github.com/azimi99/PPO-JAX>

- Deep reinforcement learning algorithm developed using Python, Numpy, and JAX
- Performance optimized for fast training using JIT

**PandaPickCube** May 2025 – July 2025  
<https://azimi99.github.io/about.html#talks>

- End-to-end neural network that performs object picking from vision using the Franka Emika Panda arm
- Trained in a simulator and deployed to the real world within minutes

## EXPERIENCE

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**Research Assistant** Sep 2023 – Present  
Department of Computing Science, University of Alberta, Edmonton AB

- Implemented real-time control interface using ROS
- Optimized training performance through Just In Time compilation and CUDA
- Built simulation environments in MuJoCo for sim training and sim-to-real transfer

**Machine Learning Engineer Intern** Oct 2025 – December 2025  
CropMind, Edmonton AB

- Developed production inference pipelines using GCP and FastAPI
- Trained accurate segmentation models using DinoV3 and PyTorch
- Trained edge detection models for automated yield estimation of fruits in production

**Software Engineer** May 2022 – Aug 2023  
Intelliwave Technologies, Edmonton AB

- Developed comprehensive test suites in .NET and JavaScript for robust frontend and backend testing
- Automated UI testing with Mocha and Node.js; built monitoring dashboards in React for production health
- Created scalable MongoDB and MySQL queries for search, internal analytics, and reporting

- Implemented system integration scripts to streamline cross-system communication and operations

### **Software Engineer Intern**

Sept 2021 – Dec 2021

Intelliwave Technologies, Edmonton AB

- Developed comprehensive test suites in .NET and JavaScript for robust frontend and backend testing
- Automated UI testing with Mocha and Node.js
- built monitoring dashboards in React for production health

### **Software Engineer Intern**

Jan 2020 – Aug 2020

Telus, Edmonton AB

- Developed Python test scripts to automate TV application testing
- Built an inventory management system using JavaScript, MongoDB, and native mobile apps (Swift/Java)

### **Database Administrator Intern**

May 2019 – Aug 2019

University of Alberta, Edmonton AB

- Maintained Ubuntu servers and managed internal research databases
- Wrote search queries in MySQL to retrieve data for web APIs
- Cleaned, remapped, and transformed datasets using Python to insert into relational databases

## **EDUCATION**

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**M Sc. in Computing Science**, University of Alberta

Expected 2026

Specialization in Machine Learning

**B Sc. in Computer Engineering (Co-op)**, University of Alberta

2017 – 2022

With Distinction

## **AWARDS**

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**Alberta Graduate Excellence Scholarship, \$12,000**

2024

Awarded for academic excellence and research distinction

**Graduate Research Stipend, \$50,000**

2023

Awarded for ML research in robotics and vision;