David Benshachar

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Education

California Polytechnic State University-San Luis Obispo – Bachelor of Science in Computer Science Sep 2025 – Jun 2027

Experience

Machine Learning Engineer Intern, Gradient– Seattle, WA Jul 2024 – Aug 2025

- Finetuned YOLOv10 classification model to identify photos with lighting issues resulting in accuracy of 97%.
- Developed algorithms to generate over 1 million synthetic images to train AI models using homography and openCV.
- Wrote 100+ comprehensive unit tests to ensure API robustness on model deployment and multithreading safety.
- Created algorithm to crop image using line detection and AI models with 94% accuracy and inference of 1 second.

Software Engineer Intern, Seagull Scientific– Seattle, WA Jan 2024 – Jul 2024

- Developed C# scripts and UI utilizing REST APIs for batch file uploading and downloading in the cloud.
- Program capable of robustly handling 100+ files simultaneously internal batch and stress testing.

Firmware Engineer Intern, Meteorcomm– Seattle, WA Nov 2023 – Jan 2024

- Tested for irregularities in company radios using SSH sessions to graph detected noise across 176 channels.
- Analyzed graphs across multiple company radios show consistent noise detection irregularities in certain channels.

Information Technology Intern, Bellevue High School– Seattle, WA Nov 2022 – Jun 2023

- Logged and organized the entire school's surplus of tech inventory of 50+ laptops, laptops, and devices.
- Updated and imaged over half of (50+) teacher laptops to more recent hardware to streamline teaching.
- Solved 200+ student and teacher IT tech problems with projectors, sound systems, laptops, and Office software.

Projects

FIRST Robotics Large Language Model – Seattle, WA github.com/dbenshachar/frc-gpt

- Scraped over 8k GitHub repositories for over 1M lines of code to create dataset for large language model.
- Trained LLM(Llama 3.2, 1B parameters) in PyTorch to autocomplete and assist with coding specifically for robotics.
- Deployed model in VSCode with integrated MCP server using Ollama to be able to run locally.

Leadership

Ramen Robotics, FRC Team 9036 – Seattle WA Sep 2023 – Jun 2025

- Coordinated 6-week build across software and engineering teams (40+ members) to fabricate robot on time.
- Implemented the robot’s autonomous routine finishing in the 67th percentile of district’s autonomous rankings.
- Led codebase migration from tank drive to swerve drive, improving robot maneuverability.

Skills

Programming Languages: Python, C, C++, C#, Java

Frameworks and Libraries: Pytorch, Numpy, REST API, Pandas, Github, Agile, SQL, .NET, Tensorflow, OpenCV