Bryan Linares

213-275-7586 | blinar55@gmail.com | linkedin.com/in/bryandlinares | github.com/bryanl1 | Los Angeles, CA (relocate ok)

Education

California State University, Long Beach — Long Beach, CA
Master's of Science in Computer Science ***GPA:3.5*** — *Aug. 2022 – Dec. 2025 (Expected)*

Long Beach, CA
Bachelor's of Science in Computer Engineering, Minor in Computer Science — *Jan. 2017 – Dec 2019*

Santa Monica College — Santa Monica, CA
Cybersecurity, Department Certificate — *Feb. 2022 – June 2022*

Projects

Bugfixhound WebApp | *Python, FastAPI, Bootstrap, SQLite3, Docker* — Github

- Developed a full-stack web application using FastAPI serving a REST API with Bootstrap components as the frontend
- Implemented a bug-tracking web application to assign and track bugs and reports to registered authorized users
- Visualized and accessed SQLite3 stored input data using SQL
- Used FastAPI methods in a Flask style, to handle backend and templated Bootstrap components for layout and navigation
- Deployed using fly.io using Docker

Interpreter for BASIC-like language | *Java, ANTLR, Git* — Github

- Designed and Extended a Programming Language from a specification
- Implemented a BASIC clone language with more than 20 functions in order to make a Calculator
- 700 LOC in pure Java using the Eclipse IDE with a functionality tree designed in ANTLR's EBNF grammar

Twitter Sentiment Analysis | *Tensorflow, Google Colab, Python, AI* — Github

- Cloud based, Jupyter notebook and Tensorflow to do a survey of AI computation for sentiment analysis
- Python implementation of a Sep CNN model for Twitter Analysis on 100000 on a single GPU
- Used Google Colab on a corpus provided by Kaggle using a variety of methods including Naive Bayes classifier

Deep Neural Networks on Crime and Face Statistics | *Pytorch, Pandas, Matplotlib, Numpy* — Github

- Took a real-world open dataset of crime data and ran regressions on Pytorch, visualized results using Matplotlib
- Ran AutoEncoders, Variational AutoEncoders, and explored automated optimization for best results on face reconstruction

Rolling Arm Robot | *Embedded C, C++, OpenCV, ARM* — Github

- Built a Machine Vision guided autonomous robot to navigate and clean a space
- Developed C++ and OpenCV code for RealSense 3D Camera to detect littered cans with 80% accuracy
- Wrote Linux interface cron job code on UPBoard SBC to communicate with custom PCB and ARM controller
- Assisted with Embedded C code for Robotic Arm's grabbing procedure controlled by an ARM Cortex M3 micro controller

Skills

Languages: Python, C/C++, Embedded C, Java, SQL (SQLite), Verilog, JavaScript, HTML/CSS, Golang
Frameworks: FastAPI, Flask, React
Developer Tools: Git, Docker, AWS, MySQL, Visual Studio, Eclipse, Xilinx ISE, Vivado, Keil uVision, ARM Cortex M3
Libraries: Pytorch, NumPy, Matplotlib
Relevant Coursework: Advanced Data Structures and Algorithms, Quantum Computing, Artificial Intelligence, Programming Languages Theory, Testing and Verification, Ethical Hacking, Cloud Computing with AWS
Foreign Languages: Spanish (Fluent)