ETHAN LEGUM

✉ ethanlegum@gmail.com 🌐 www.ethanlegum.com
📞 954.294.9578 in www.linkedin.com/in/ethan-l/

🎓 EDUCATION

Aug 2022 - Current

The University of Central Florida *Orlando, Fl*
M.S. in Computer Vision | GPA 3.8
- Top Courses - Advanced *AI, Machine Learning, Computer Vision*

Aug 2017 - May 2022

The University of Central Florida *Orlando, Fl*
B.S. in Computer Science | GPA 3.5 | Core CS GPA 3.9
- Top Courses - *AI, Robot Vision, Parallel Programming, CS 1 & 2, and Computer Security*
- Dean's List - *7 Semesters*

💡 PROJECTS

Sep 2022 - Dec 2022

Credit Card Fraud Detection *Python*
Architected machine learning pipeline that efficiently detects fraud using real European consumer credit card data
- Optimized classifier using AUROC score to achieve 98% separation of fraudulent and non-fraudulent data.
- Applied regularization to stabilize model and raise accuracy by 22%.
- Balanced dataset of 300,000 credit card transactions by artificially creating more fraudulent data using SMOTE.

Aug 2021 - April 2022

EasyMeshVR *C#, Unity, NodeJS, AWS*
Developed multiplayer VR application that allows users to collaboratively edit 3D models.
- Led 5-person team in building mesh-editing, multiplayer, and web architecture to launch application in 6-month period.
- Implemented UI that eliminated motion sickness in users by communicating mesh state through colors.

Feb 2021 - April 2021

Nutrition Intuition *JavaScript, HTML, CSS*
Created web app that allows users to track nutritional value of their food and provide healthy eating suggestions.
- Managed 6-person team in designing, programming, and presenting web and mobile platforms within 10 weeks.
- Deployed secure implementation of MERN stack, including managing non-relational database using NoSQL.

Jan 2018 - May 2018

Evo-Rockets: Evolutionary Learning Pathfinding Algorithm *C#*
Explored reinforcement learning and pathfinding by developing a 2D rocket stimulation in Unity.
- Programmed custom algorithm that evolves the path-to-target over many generations to improve precision.

👤 LEADERSHIP

May 2019 - Dec 2020

Alpha Epsilon Pi Fraternity *Executive Board*
- Entrusted by 100-member chapter to serve on executive board, lead new members, and plan events.
- Managed committee that transitioned 37 new members into the fraternity over two-semester period.
- Streamlined new member program framework for successors to use in creating their own schedules.

Aug 2018 - Aug 2019

StandWithUs Emerson Fellowship *UCF Fellow*
- Organized 8 campus-wide events to help UCF students learn about Israel's culture and history.
- Collaborated with 6 other clubs, coordinating interorganizational events.
- Communicated successfully with over 1,500 students from a variety of backgrounds and majors.

Jan 2016 - May 2017

Drone Club *Founder, Project Manager, Drone Engineer*
- Founded Drone Club to further explore my interest in programming and building quadcopters.
- Built multiple quadcopters such as FPV racing drones and camera drones.

⚙ SKILLS

Development Experience
Leading programming teams, following Agile development principles, and public speaking.

Java *23 Projects*
Dynamic/recursive algorithms, complex data structures, and object-oriented design.

Python *15 Projects*
Building predictive models and neural networks for classifying large datasets.

Industry Tools
PyTorch, Keras, MySQL, Unity, MongoDB, Figma, Scikit-Learn, NumPy, Pandas, and Github.

▦ LANGUAGES

Programming

Java ●●●●◖
Python ●●●●◖
C# ●●●●○
HTML & CSS ●●●●○

Conventional

English ●●●●●
Hebrew ●●●○○