

# Ethan Legum



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## EDUCATION

**THE UNIVERSITY OF CENTRAL FLORIDA**, Orlando, FL

*est. May 2022*

**Bachelor of Science in Computer Science** | **GPA: 3.5** | **Core CS GPA: 3.9**

Dean's List: Fall 2018, Spring 2019, Spring 2020, Summer 2020, Fall 2020, Spring 2021

Relevant Courses: Software Development, Machine Learning, AI, Robot Vision, CS2, CS1, OOP, Computer Security

**NOVA SOUTHEASTERN UNIVERSITY HIGH SCHOOL**, Davie, FL

*May 2017*

Founded drone/quadcopter club fostering my interest in programming and robotics.

## PROJECTS

**Nutrition Intuition Full-Stack Web Development** | **JavaScript, HTML, CSS**

*Feb. 2021 - Apr. 2021*

- ❖ Created web app that allows users to track nutritional value of their food and provide healthy eating options.
- ❖ Led 6-person team in designing, implementing, and launching project within 10 weeks.
- ❖ Deployed secure implementation of MERN stack, including managing multidimensional database using NoSQL.
- ❖ Designed user interface for both web and mobile implementations of program.

**Credit Card Fraud Detection Utilizing XGBoost** | **Python**

*Nov. 2020 - Dec. 2020*

- ❖ Cleaned dataset of 600,000 credit card transactions and artificially created more fraudulent transactions.
- ❖ Achieved accuracy score of 92% by optimizing classifier with gradient boosting, surpassing the required score.
- ❖ Assigned tasks as team leader and ensured that we stayed on schedule.

**Generic Datatype Skip List** | **Java**

*Oct. 2020 - Nov. 2020*

- ❖ Coded simpler and faster data structure than traditional hash tables or binary trees by combining their best features.
- ❖ Implemented custom memory allocation that scales logarithmically and can hold any data type or object.

**Pathfinding w/ Evolutionary Learning Algorithm** | **C#**

*Feb. 2018 - Sept. 2018*

- ❖ Developed 2D simulation that finds path-to-target and evolves every generation to improve precision.
- ❖ Programmed custom algorithm that crossed two best paths for each generation and mutated it slightly each run.

## SKILLS

**Top Programming Languages**

- ❖ **Java**: 18 projects. Exploring dynamic vs recursive algorithms, complex data structures, and object-oriented design.
- ❖ **Python**: 7 projects. Configured models using support vector machines and multi-layered neural networks.
- ❖ **HTML, CSS**: 3 web projects. Responsible for database management and front-end development.

**Development Experience**

- ❖ Industry tools & packages: SQL, MongoDB, React, Github, Unity, Keras, Scikit-Learn, NumPy, Pandas, and Matplotlib.
- ❖ Comfortable public speaking, following agile principles, and leading small-scale programming teams.

## PROFESSIONAL DEVELOPMENT

**Alpha Epsilon Pi Fraternity**, Orlando, FL

*May 2019 - Dec. 2020*

**Executive Board / New Member Educator**

- ❖ Entrusted by 100-member chapter to serve on executive board, lead new members, and plan annual schedule.
- ❖ Managed committee that successfully transitioned 37 new members into fraternity over two-semester period.
- ❖ Streamlined new member program framework for successors to use in creating their own schedules.

**Emerson Fellowship**, Orlando, FL

*Aug. 2018 - Aug. 2019*

**UCF Fellow**

- ❖ Organized 8 campus-wide events to help UCF students learn about Israel's culture and history.
- ❖ Collaborated with 6 other clubs, coordinating inter-organizational events.
- ❖ Communicated successfully with over 1,500 students from many different backgrounds.

**Languages & Hobbies**: Hebrew (conversational), Cooking, 3D Modeling, Video Editing, Exploring The Outdoors

*Prepared on July 1, 2021*