Ethan Legum

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EDUCATION

THE UNIVERSITY OF CENTRAL FLORIDA, Orlando, FL   *exp. May 2022*
Bachelor of Science in Computer Science | GPA: 3.5 | Core CS GPA: 3.8
  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.
  ❖ Managed 6-person team in designing, implementing, and launching project within 10 weeks.
  ❖ Deployed secure implementation of MERN stack, including managing non-relational 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.
  ❖ Promoted cohesive team environment by maintaining schedule and delegating tasks as project manager.

Generic Datatype Skip List | **Java**   *Oct. 2020 - Nov. 2020*
  ❖ Coded my own implementation of Skip List, a data structure with logarithmic search, insert, and delete.
  ❖ Implemented custom memory allocation that scales probabilistically and can hold any data type or object.

Pathfinding w/ Evolutionary Learning Algorithm | **C#**   *Jan. 2018 - May 2018*
  ❖ Explored reinforcement learning and pathfinding outside the classroom by developing 2D rocket simulation in Unity.
  ❖ Programmed custom algorithm that finds path-to-target then evolves and mutates each run to improve precision.

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, 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, Tennis, 3D Modeling, Video Editing, Exploring The Outdoors