Eric Altenburg

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Education

Stevens Institute of Technology, Hoboken, New Jersey — Graduating - May 2021
Bachelors of Science in Computer Science | Minor in Pure and Applied Mathematics
GPA: 3.85 | Dean's List | Upsilon Pi Epsilon
Coursework: Data Structures, Systems Programming, Text Mining/Natural Language Processing, Algorithms, Creative Prob. Solv. & Team Prog., Agile Methods for Software Development

Mercer County Community College, West Windsor Township, New Jersey — Transferred - Aug 2018
Associates of Science in Computer Science
GPA: 3.96 | President's List | Dean's List | Phi Theta Kappa

Skills

Languages C/C++, CSS, HTML, Java, JavaScript, LaTeX, ARMv8 Assembly, OCaml, Python, R
Technologies Android Studio, g++, Git, Gradle, Linux, macOS, MongoDB, Node.js, scikit-learn, Windows

Work Experience

Stevens Institute of Technology, Hoboken, NJ — Aug 2019 - Present
Computer Science Department | Algorithms Course Assistant
- Challenged with developing different approaches for explaining topics such as sorting, dynamic programming, greedy algorithms, and analyzing code complexity to students one-on-one
- Led weekly programming labs and held office hours to provide extra help for struggling students
- Graded exams and assignments on a weekly basis and communicated with students to resolve any questions about grading

Texas State University, San Marcos, TX — Jun 2019 - Aug 2019
Pre-Flight Battery Consumption Model for UAV Missions | Undergraduate Research Assistant
- Collaborated on a team of three to produce a machine learning model capable of predicting drone battery consumption pre-flight
- Built a classifier decision tree with Python's scikit-learn to analyze raw flight data and produce a prediction for all the maneuvers a drone will perform during its flight
- Evaluated the risk analysis of using different machine learning models such as random forests, boosted trees, neural networks, and decision trees to ensure the accuracy of the model while making sure the learning curve does not derail the project's timeline

Projects

CA-Bot for Discord Personal. Hamilton, NJ — Aug 2020
- Worked on a team of four to create a bot capable of managing office hours for course assistants on a Discord server
- Implemented administration authorization features through development testing while ensuring the code was compartmentalized to promote maintainability for future releases

Modified Euler 43 Stevens Institute of Technology. Hoboken, NJ — Feb 2020
- Managed a team of three to solve a modified version of Euler 43 where when given a pandigital number of varying length, it will find all permutations
- Developed the method of solution by breaking down the problem prompt and constructing a set of solutions deterministically in sub four ms

Project MASS Personal. Hamilton, NJ — Dec 2019
- Automated the setup of a Mac by writing a bash script to auto-install Xcode and applications with Homebrew
- Copied old Sublime Text settings into their respective directories in order to maintain consistent settings across multiple machines

Philly Codefest Drexel University. Philadelphia, PA — May 2019
- Built an app that helps current and future students better understand financial loans used to help pay for college
- Integrated an API from the Bureau of Labor Statistics in Java that allows one to view potential earnings in their respective field, then provides a breakdown for paying off a customized loan amount
- Received an honorable mention from Vanguard