

# Eric Altenburg

Hoboken, New Jersey, 07030

609.306.2359 | ealtenbu@stevens.edu | linkedin.com/in/ealtenburg | ealtenburg.co

## Education

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**Stevens Institute of Technology**, Hoboken, New Jersey Graduating - May 2021  
Bachelors of Science in Computer Science | Minor in Pure and Applied Mathematics  
GPA: 3.88 | 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

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**Languages** C/C++, CSS, HTML, Java, JavaScript,  $\text{\LaTeX}$ , ARMv8 Assembly, OCaml, Python, R  
**Technologies** Android Studio, g++, Git, Gradle, GraphQL, Linux, macOS, MongoDB, Node.js, React, Redis, scikit-learn

## Work Experience

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**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

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**Lighthouse** Stevens Institute of Technology. Hoboken, NJ Dec 2020  
– Developed a full-stack application with a team of four that allows students to better connect with their peers and instructors  
– Implemented features that students can use to post on a class page and to vote on posts they feel deserve more attention  
– Included the ability for instructors to endorse specific posts providing immediate attention to it  
**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  
**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