Ethan Haller

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EDUCATION

University of Virginia, School of Engineering and Applied Sciences Charlottesville, VA

Major: Computer Science | GPA: 3.88/4.00 *B.S. May 2025*

- Rodman Scholars Program: An honors program awarded to 5% of each class in the School of Engineering & Applied Sciences; selected by academic performance and engagement in improving the community.
- Relevant Courses: Software Development (Java), Algorithms (Java), Machine Learning (Python)

WORK EXPERIENCE

University of Virginia Charlottesville, VA

Teaching Assistant *August 2023 - Present*

- Assist in teaching Software Development Essentials such as MVC architecture and test-driven development by providing one-on-one guidance to students during office hours and in online discussion forums.
- Evaluate and grade projects written in Java by testing programs and enforcing proper Git practices.

CargoLabs Charlottesville, VA

Software Engineer Intern *June 2023 - August 2023*

- Developed, tested, and integrated several new scalable features into production in a distributed cloud infrastructure by making daily deployments to Amazon Web Services (Lambda, S3) using Serverless Framework.
- Reduced frontend page load time by 57% through the modularization of existing JavaScript files and implementation of an optimized algorithm for rendering dynamic content into a table.
- Accelerated MySQL insert efficiency from exponential time to constant time by designing and executing a query optimization algorithm that resulted in a significant reduction in insert statements.
- Facilitated the acquisition of a client by directly communicating to bring a new and required feature to life.

UVA Biocomplexity Institute Charlottesville, VA

Research Intern *May 2022 - June 2022*

- Processed COVID-19 mobility data from 1.8 million U.S. locations for a project funded by the National Science Foundation by employing custom Python and PostgreSQL scripts to manage large and diverse file formats.
- Led a presentation to over 120 faculty and interns at the UVA Biocomplexity Institute's annual research symposium by collaborating with a mentor to research and create a final poster of all research findings.

PROJECTS

EasyBuy E-Commerce Platform *May 2023*

- Deployed a multi-tiered e-commerce website with a frontend on Netify and a public-facing API on Render by collaborating with a team of 5 members using React.js, Express.js, and Firebase Firestore.
- Implemented secure login and server-side payment functionality with Firebase OAuth and Stripe.

Credit Score Simulator *March 2023*

- Awarded 1st place in the Capital One Finance Track of the HooHacks Hackathon by engineering and presenting an innovative, gamified credit score simulator in React with a team of 4 in less than 24 hours.

LEADERSHIP AND ACTIVITIES

Theta Tau Co-Ed Professional Engineering Fraternity Charlottesville, VA

Corresponding Secretary *January 2023 - Present*

- Boosted visits to the fraternity website by 29% in 1 month by designing and incorporating an updated responsive layout to display static content in a more accessible manner to mobile users.
- Operated a table at a local convention to educate 200+ elementary students on engineering fundamentals.

SKILLS

- Languages: Proficient in Java, JavaScript, HTML, CSS; Experience in Python, C
- Technologies: React, React-Native, AWS (S3, Lambda, API Gateway), Serverless Framework, Express, SQL