

GRANT SWEENEY

824 S Royal Street Alexandria, Virginia | grantsweeney02@gmail.com | +17037555452
<https://www.linkedin.com/in/grant-sweeney> | <https://github.com/grantsweeney02>

EDUCATION

University of Virginia, School of Engineering, Charlottesville, VA

August 2021 - May 2025

B.S. Computer Science | B.A. Economics

GPA: 3.85

- Relevant Courses: Data Structures and Algorithms, Machine Learning, Advanced Software Development, Cybersecurity, Discrete Math, Software Development Essentials

PROFESSIONAL EXPERIENCE

Head Teaching Assistant, **University of Virginia**, Charlottesville, VA

January 2023 - Present

- Offered expert guidance to over 150 students per semester in debugging and testing Java code, leveraging advanced tools such as JavaFX, Mockito, Hibernate, and Gradle to bolster students' software development proficiency.
- Delivered engaging lectures on complex subjects such as OO Decomposition, UML Diagrams, and Software Design Principles to audiences of up to 400 students, leading to an improvement in student comprehension, as indicated by course feedback.
- Recognized with the Louis T. Rader Teaching Award for outstanding teaching performance, an honor bestowed upon a single teaching assistant annually for exceptional dedication and impact.

Software Engineering Intern, **CarMax**, Richmond, VA

June 2023 - August 2023

- Designed and developed a robust C# .NET application with a modern React.JS front-end, optimizing CarMax's NLP chatbot (SKYE) AI training reinforcement process in a Kanban agile team framework.
- Synthesized cutting-edge NLP technologies employing OpenAI and Microsoft LUIS (Language Understanding Intelligent Service), boosting chatbot understanding and response accuracy.
- Engineered efficient C# Azure Functions, creating API endpoints for seamless access to CosmosDB and implemented an asynchronous trigger, streamlining data updates in conjunction with calls to OpenAI.

Software Engineering Intern, **REI Systems**, Sterling, VA, USA

May 2022 - August 2022

- Collaborated with engineers in designing and deploying a real-time data streaming pipeline, enhancing functionality of IntelliSearch, an AI-driven search engine, through a Java application interfacing with AWS CloudWatch.
- Deployed and managed applications using Docker and Helm charts within Kubernetes clusters, accurately simulating production environments and refining deployment efficiency.

PROJECTS

HoosTutoring

January 2023 - May 2023

- Spearheaded the creation of a Django-based web application enabling students to easily search for and request tutors, utilizing with the school's SIS API to fetch real-time class information.
- Established GitHub CI/CD pipelines to facilitate seamless deployment and continuous integration, ensuring high availability and up-to-date application performance.
- Integrated Google OAuth to manage secure user authentication, prioritizing privacy and data protection within the application framework.

Credit Score Simulator

March 2023 - March 2023

- Engineered a React.js application winning first place at HooHacks in the Capital One Finance Track, Credit Score Simulator predicts credit score changes based on user's life choices, utilizing a heuristic based model using FICO scoring criteria.
- Crafted a user-friendly interface using Figma for UI/UX design and Adobe Photoshop for graphics, ensuring an engaging and intuitive user interaction.
- Implemented the front end with HTML and CSS, ensuring responsive and visually appealing layouts and integrated backend simulations to provide real-time credit score estimations.

SKILLS

- Programming Languages: Java, Python, C#, C/C++, SQL, JavaScript, HTML, CSS
- Frameworks: Django, ASP.NET, React Spring, JUnit, Mockito, FastAPI
- Developer Tools: Git/GitHub, Docker, Figma, AWS, Microsoft Azure