

Devang Ray

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EDUCATION

University of Virginia

Bachelor of Science in Computer Science

Charlottesville, Virginia

Cumulative GPA: 3.91

Notable Classes: Internet Scale Applications, Database Systems, Defense Against the Dark Arts (Advanced Cybersecurity)

WORK EXPERIENCE

CargoLabs | Software Engineer Intern | Charlottesville, Virginia

January 2025 - Present

- Identified security vulnerabilities in the codebase and successfully integrated AWS Secrets Manager for secure retrieval and rotation of credentials into more than 600 Lambda endpoints, effectively eliminating the security threat.
- Led the development of a new feature that streamlined payment tracking for users by enabling them to conveniently view their payments in one digestible location, benefiting over 1200 users on the seller and buyer platforms.
- Collaborated with team members to troubleshoot and resolve technical issues, ensuring optimal performance and reliability of the platform.

Technologies: Next.js, TypeScript, Serverless Framework, AWS, MySQL, Bash, PostHog

Swift | Software Engineer Intern | Tysons Corner, Virginia

June 2024 - August 2024

- Overhauled a 13-year-old pure HTML web application utilizing React and Express.js, helping users troubleshoot common problems with connecting to the Swift network resulting in a 12.3% reduction in support requests.
- Designed and implemented a keyword search feature for improved page and document navigation improving user search times from 10 minutes to 1.5 minutes on average.
- Collaborated cross-functionally with UI/UX designers to create an interface that aligns with Swift's brand guide and modularly supports 2 languages, facilitating the expansion to more languages as demand arises.

Technologies: React, Express.js, CSS, Bootstrap

Swift | Software Engineering Intern | Manassas, Virginia

June 2023 - August 2023

- Provided data analysis and visualization of the performance of more than 20 different processes in Swift's financial messaging product to proactively identify potential system errors, reducing propagated failures by 2.3%.
- Developed 30 comprehensive Kibana visualizations to deliver critical information on process errors, average transactions per second, and potential processes at risk for failure.
- Communicated effectively with stakeholders and managers on a weekly basis to provide progress updates and receive feedback on projects.

Technologies: Red Hat Enterprise Linux, Bash Shell Scripts, Elastic Stack, Vega

UVA CS Department | Teaching Assistant | Charlottesville, Virginia

August 2022 - December 2024

- Tutored 30+ undergraduate students during weekly office hours, taught best practices for Git, navigating Linux/UNIX operating systems and shells, and guided students through debugging Assembly, C, and full-stack Java coding projects.
- Graded over 800 assignments, covering basic computer architecture, x86-64 assembly, and C and C++ languages.
- Educated students on SQLite syntax, integrating SQLite into Java projects, and principles of software design.

Technologies: C, x86-64 Assembly, Java, JavaFX, SQLite

EMS LINQ, Inc. | Software Engineering Intern | Raleigh, North Carolina

June 2022 - August 2022

- Debugged AngularJS frontend & C#/.NET backend applications across the LINQ ERP education product space.
- Upgraded 10% of LINQ ERP endpoint security, heightening data protection measures.
- Worked in an Agile development team, leading to a 12.5% increase in average weekly productivity.

Technologies: AngularJS, C#/.NET framework, MySQL, Azure

PROJECTS

HoosBuying | Vue.js, Flask API, MySQL

May 2024

- Collaborated in a group of 2 to develop a shopping platform for UVA students, over 1 month.
- Designed the website to persist user data, hosted items, and conversations with other users, ensuring a seamless and efficient user experience.
- Implemented secure user authentication processes and utilized cookies to maintain user sessions and enhance website security.

Acronym Chatbot | Python, Flask, OpenAI API

July 2023

- Developed an application run on Flask that called on an OpenAI model to define and summarize commonly used industry acronyms as a workplace aid.
- Applied the MVC (model-view-controller) design pattern to maximize adaptability, allowing the team to incorporate the chatbot into existing internal tools later.
- Collaborated with a team of 5 interns to build and market our chatbot, resulting in placing as the 1st place project at the Swift Intern Hackathon.