

Devang Ray

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EXPERIENCE

Software Engineer <i>Swift</i>	July 2025 - Present <i>Tysons Corner, Virginia</i>
<ul style="list-style-type: none">• Spearheaded the development and deployment of a customer-facing help website, reducing customer support calls by 14%.• Designed a component-based architecture that facilitated modular code and reduced maintenance time by 34%.	
Software Engineer <i>CargoLabs</i>	January 2025 - June 2025 <i>Charlottesville, Virginia</i>
<ul style="list-style-type: none">• Led the release of an entirely new customer portal that centralized business-critical functions to enhance client efficiency and operations transparency, benefitting over 1200 active users.• Developed and deployed over 12 new services within a fully microservices-based architecture, expanding the company's marketplace functionality and increasing growth by 7%.• Upgraded the company's back-end code to securely handle high-risk credentials, eliminating potential vulnerabilities and streamlining the company's key-rotation procedures.	
Software Engineering Intern <i>Swift</i>	June 2024 - August 2024 <i>Tysons Corner, Virginia</i>
<ul style="list-style-type: none">• Transformed a 13-year-old legacy knowledge portal into a modern and responsive web application with improved UX and navigation, reducing customer support requests by 12.3%.• Designed and implemented a keyword search feature for improved document navigation, improving user search times from 10 minutes to 1.5 minutes on average.	
Software Engineering Intern <i>Swift</i>	June 2023 - August 2023 <i>Manassas, Virginia</i>
<ul style="list-style-type: none">• Provided data analysis and visualization of the performance of the company's most critical product, to proactively identify potential system errors, reducing propagated failures by 2.6%.	
Senior Teaching Assistant <i>University of Virginia Computer Science Department</i>	August 2022 - December 2024 <i>Charlottesville, Virginia</i>
<ul style="list-style-type: none">• Tutored 30+ undergraduate students, teaching best practices with Git, navigating Linux/UNIX systems, and debugging Assembly, C, and full-stack Java coding projects.• Graded over 800 assignments and assisted in writing comprehensive exam questions covering Computer Architecture, x86-64 Assembly, both C and Java coding languages, and Software Design Patterns.	
Software Engineering Intern <i>EMS LINQ, Inc.</i>	June 2022- August 2022 <i>Raleigh, North Carolina</i>
<ul style="list-style-type: none">• Upgraded 10% of backend endpoints used by the company's primary product, strengthening the protection of their customers' confidential educational data.• Contributed to a 12.5% increase in average weekly productivity for the team.	

NOTABLE PROJECTS

3SKey Digital Help Website

July 2025 - October 2025

- Built a customer-facing web application using React, Express.js, and Strapi CMS, architecting the project from the ground up.
- Orchestrated the deployment of the project, including containerizing services with Docker, and configuring a Jenkins and CloudBees CI/CD pipeline for automated deployment to AWS.
- Integrated a headless content management system and database within the project to streamline resource management by separating content from the project's codebase.

Fantasy Football Sentiment Analyzer | <https://devangray.dev/projects/sentiment-analyzer>

July 2025 - October 2025

- Designed and implemented a full-stack fantasy football analytics tool, building a Next.js frontend with TypeScript and Tailwind CSS and a Flask API to interface with the backend.
- Developed an end-to-end NLP pipeline to transcribe podcast audio, perform Named Entity Recognition and fuzzy matching to filter real NFL players, and analyzed sentiment using an entailment model.
- Researched and integrated optimal ML models for entity extraction and sentiment classification, while optimizing the pipeline for performance.

HoosBuying | <https://devangray.dev/projects/hoosbuying>

January 2024 - May 2024

- Collaborated with a partner to develop a bartering platform for UVA students, capable of concurrent use by multiple users.
- Engineered a custom authentication process, using cookies and backend-supported session tokens to maintain user sessions, enforce website timeouts, and enhance website security.

SKILLS

Programming Languages Java, Python, C, C#, JavaScript, TypeScript, Node.js

Technologies AWS ECS, AWS Lambda, AWS Cognito, AWS Secrets Manager, PostgreSQL, MySQL, SQLite, MongoDB, Firebase, Django, Flask, Next.js, React, Docker

EDUCATION

University of Virginia School of Engineering & Applied Science

August 2021 - December 2024

Bachelor of Science in Computer Science

Graduated with Highest Honors