

# Devang Ray

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## EXPERIENCE

### Software Engineer

**July 2025 - Present**

*Swift*

*Tysons Corner, Virginia*

- 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

**January 2025 - June 2025**

*CargoLabs*

*Charlottesville, Virginia*

- 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.
- Upgraded the company's back-end code to securely use high-risk credentials, eliminating potential vulnerabilities and streamlining the company's key-rotation procedures.

### Software Engineering Intern

**June 2024 - August 2024**

*Swift*

*Tysons Corner, Virginia*

- 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

**June 2023 - August 2023**

*Swift*

*Manassas, Virginia*

- 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

**August 2022 - December 2024**

*University of Virginia Computer Science Department*

*Charlottesville, Virginia*

- 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

**June 2022- August 2022**

*EMS LINQ, Inc.*

*Raleigh, North Carolina*

- Upgraded 10% of backend endpoints used by the company's primary product, strengthening the protection of their customers' confidential educational data.
- Thrived in an Agile development team, contributing to a 12.5% increase in average weekly productivity for the team.

## NOTABLE PROJECTS

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### 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

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**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

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**University of Virginia** School of Engineering & Applied Science

August 2021 - December 2024

*Bachelor of Science in Computer Science*

Graduated with Highest Honors