

# Sai Akhilesh Tulluri

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## EDUCATION

### Northeastern University

*Master of Science in Computer Science*

*Coursework: Programming Design Paradigms, Computer Systems*

Boston, MA, United States

Sep 2024 – May 2026

### Vellore Institute of Technology

*Bachelor of Technology in Computer Science and Engineering (CGPA: 9.03/10.0)*

*Coursework: Data Structures & Algorithms, Web Development, Database Systems*

Andhra Pradesh, India

Aug 2020 – May 2024

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, Java, C, HTML/CSS

**Frameworks:** Flask, FastAPI, Django, Express.js, React.js, Next.js, Redux, Webpack, Spring, Angular

**Databases:** PostgreSQL, MySQL, SQLite, MongoDB, Redis, Oracle

**Other Tools:** Amazon Web Services, Microsoft Azure, Cloudflare, Docker, Git & GitHub, Linux/Unix

## EXPERIENCE

### Graduate Teaching Assistant

*Khoury College of Computer Sciences, Northeastern University*

- Teaching Assistant for CS4500 Software Development course under the guidance of Dr. Matthias Felleisen and Dr. Benjamin Lerner.

Sep 2024 - Present

Boston, MA, United States

### Software Engineering Intern

*Jarobe Labs | Next.js, TypeScript, PostgreSQL, Vercel*

- Engineered a GitHub App and web platform for a cutting-edge developer tool designed to enhance organizational security using GitHub.
- Integrated the Web Authentication API to implement a critical security feature, enabling two-factor authentication (2FA) for GitHub Pull Request approvers.

Jan 2024 – Apr 2024

Jackson Center, OH, United States

### Software Engineering Intern

*DigitalFortress | Python, Django REST Framework, MySQL, AWS*

- Enhanced the Point of Sale (POS) system's sales dashboard API latency by 50% through SQL query optimization, refining inefficient queries and reducing unnecessary database lookups.
- Orchestrated a robust CI/CD pipeline to automate unit tests, build Docker images, and deploy to GitHub Container Registry; streamlined updates with Watchtower on AWS EC2 and optimized backend API delivery using Nginx.

May 2023 – Aug 2023

Andhra Pradesh, India

### Software Engineering Intern, Platform Team

*eFuse | Node.js, Next.js, Redux, TypeScript, Python, MongoDB, AWS*

- Mitigated potential data exfiltration and IDOR attacks by identifying and remediating at least three critical security vulnerabilities in backend API endpoints.
- Enhanced user experience in low-bandwidth areas by improving gaming video content delivery through the integration of Cloudflare Stream and HLS video format.
- Led the initiative to connect over 150,000 gamers across 100+ communities with esports internships, scholarships, and more, leveraging eFuse's API through the development of a Discord bot.
- Improved code quality and reduced production errors through the standardized migration to TypeScript, implementation of Cypress integration testing, and establishment of a CI pipeline for eFuse's frontend.

Nov 2020 – Apr 2022

Columbus, OH, United States

## PROJECTS

**VTAPP - Event Platform** | *Next.js, MySQL, Airtable, Cloudflare pages*

[GitHub](#) | [Demo](#) (Feb 2024)

- Developed a user-friendly web platform for a technical fest using Next.js, MySQL and Drizzle ORM (**5k+ users**).
- Integrated QR-code based ticketing system & Airtable spreadsheets, enabling easier event management (**generated 50k+ tickets for 80+ events**) and deployed to serverless environment on Cloudflare.

**Restaurant Monitoring - API** | *FastAPI, PostgreSQL, SQLAlchemy, SQLModel, Redis*

[GitHub](#) (Jun 2023)

- Built a robust monitoring API to generate restaurant uptime/downtime reports for 10k+ stores.
- Implemented an efficient algorithm for calculating store's uptime/downtime. Utilized Redis and Python-Arq to asynchronously handle report generation. Achieved a benchmark of 155 seconds for processing 14,000 stores.