Sai Akhilesh Tulluri

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EDUCATION

Northeastern University — Boston, MA, United States
Master of Science in Computer Science — *Sep 2024 – May 2026*
<u>Coursework:</u> Programming Design Paradigms, Computer Systems

Vellore Institute of Technology — India
Bachelor of Technology in Computer Science and Engineering (CGPA: 9.03/10.0) — *Aug 2020 – May 2024*

EXPERIENCE

Graduate Teaching Assistant - Software Development — Sep 2024 - Present
Khoury College of Computer Sciences, Northeastern University — *Boston, MA*
- Reviewed and graded assignments for the Software Development course, providing targeted feedback to strengthen students' coding and design skills; led office hours to address challenges and support their growth.

Software Engineering Intern — Jan 2024 – Apr 2024
Jarobe Labs — *Jackson Center, OH*
- Engineered a GitHub App and web platform for a cutting-edge developer tool designed to enhance organizational security using **Next.js, TypeScript and PostgreSQL**.
- Integrated the Web Authentication API to implement a critical security feature, enabling two-factor authentication (2FA) for GitHub Pull Request approvers.

Software Engineering Intern, Platform Team — Nov 2020 – Apr 2022
eFuse — *Columbus, OH*
- 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.
- Tech Stack: **Node.js, Next.js, Redux, TypeScript, Python, MongoDB, AWS**

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.

HACKATHONS, COMPETITIONS & LEADERSHIP

- **2nd Place**, MLH Hackathon (2023) - Developed an AI assistant to plan trips by utilising **GPT-3** and TripAdvisor APIs. Tech Stack: **Next.js, Vercel**
- **3rd Place**, Engineering Clinics (2022) - Built a QR-code based Hostel Outing System for a University using **Next.js** and **Cloudflare**.
- **Technical Lead**, OpenSource Community (2022–2023) - Led a team of 20+ students, organizing events, workshops, and hackathons.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C, HTML/CSS
Frameworks: Flask, FastAPI, Django, Express.js, React.js, Next.js, Redux, Spring
Databases: PostgreSQL, MySQL, SQLite, MongoDB, Redis, Oracle
Other Tools: Amazon Web Services, Microsoft Azure, Cloudflare, Docker, Git & GitHub, Linux/Unix