

# Sai Akhilesh Tulluri

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## EDUCATION

**Master's in Computer Science**, Northeastern University (GPA: 4.0/4.0) Boston, MA  
*Coursework:* Algorithms, Programming Design Paradigm, Operating Systems Sep 2024 - May 2026  
*Teaching Assistant:* Software Development (Fall '24), Computer Systems (Spring '25).

**Bachelor's in Computer Science**, Vellore Institute of Technology (CGPA: 9.03/10.00) India  
*Coursework:* Data Structures, Web Development, Cloud Computing, Computer Networks Aug 2020 - May 2024

## EXPERIENCE

**Software Engineering Intern (Full Stack)** Jan 2024 – Apr 2024  
*Jarobe Labs* Jackson Center, OH

- Developed a full-stack web app for users to configure **3 multi-factor authentication types** (security keys, Duo Push, Twilio TOTP) using **Next.js**, **PostgreSQL**, and **TypeScript**.
- Engineered a GitHub app to enforce 2FA for pull request approvals, **securing 100% of code merges** using **Node.js**.
- Reduced development setup time by 50%** by creating **Dockerfiles** to automate **PostgreSQL** provisioning, monorepo builds with **pnpm**, and launching the **Next.js** server.

**Software Engineering Intern (Backend)** May 2023 – Aug 2023  
*DigitalFortress* India

- Optimized the Point of Sale (POS) system's sales dashboard API, **reducing latency by 50%** through **SQL query optimization**, adding indexes, and minimizing redundant database lookups.
- Reduced deployment time by 40%** by automating unit tests, Docker image builds, and deployments to GitHub Container Registry through a robust **CI/CD pipeline**.
- Enabled seamless transactions for **50+ daily users** by architecting secure RESTful APIs with **Django REST Framework** and **MySQL**, building **10 endpoints** for essential POS features, and deploying on **AWS EC2**.

**Software Engineering Intern** Nov 2020 – Apr 2022  
*eFuse* Columbus, OH

- Boosted user retention by 18%** through push notifications to remind users to maintain activity streaks, implemented in **TypeScript**, **Node.js** using third-party SaaS products like Braze.
- Increased site traffic by 6%** by connecting gamers across 100+ communities with esports internships and scholarships, by building a Discord bot in **Python**, using **PostgreSQL**.
- Reduced production issues by 20-30%** by migrating to **TypeScript**, implementing **Cypress integration tests** for eFuse's frontend (**Next.js**), and establishing a **CI pipeline**.
- Optimized search performance by 40-50%** by migrating from **AWS Elasticsearch** to **MongoDB Atlas Search**, improving response time and result accuracy for queries handled by **Express.js** endpoints.

## 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.
- Achieved a **155-second benchmark** for processing reports of **14,000 stores** by designing an efficient uptime/downtime algorithm with asynchronous processing using **Redis** and **Python-Arq**.

## TECHNICAL SKILLS

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