Sri Tarun Gulumuru

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👤 sritarung-portfolio.vercel.app

EDUCATION

City College of New York, CUNY   New York, NY

Bachelor of Science in Computer Science   *May 2024*

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering, Computer Architecture, Operating Systems, Database Systems, Web Design, Image Processing, AI & Machine Learning, **CUNY Tech Prep** (Web Fellow), **CodePath** (Android Development Fellow), **Google SWE Mentee** (GSWEP)

EXPERIENCE

Alumni Association of The City College of New York

Full-Stack Developer   *Sep 2024 - Present*
- Refined an online payment system that facilitated over 80 paid membership sign-ups monthly through the alumni website, contributing to a 2% increase in monthly membership revenue.
- Integrated a Double the Donation feature, boosting individual donation amounts by up to 10%, and streamlined data imports to improve operational efficiency and maximize donation opportunities.
- Created customized alumni group sections, boosting engagement among 5,000+ alumni with a 40% increase in active participation. Embedded 24/7 access to online resources, including 20+ event updates, 12+ digital magazines, and monthly newsletters, ensuring continuous communication and valuable content.
- Formulated and administered a scalable website data storage infrastructure using AWS and MongoDB, capable of handling over 1 TB of data. Constructed an automated deployment pipeline from GitHub to production, reducing deployment times by 50% and ensuring faster feature roll-outs.

IQSpatial

Software Engineer   *May 2024 - Dec 2024*
- Developed a scalable backend using AWS EC2 for real-time model training for solar panels and utilized S3 for efficient storage of datasets and model outputs.
- Spearheaded the implementation of the YOLOv10 model for solar panel detection, improving prediction accuracy from 35% to 75% through the annotation of 1,000 images; generating valuable insights into solar panel usage across targeted areas for clientele.
- Designed and deployed a sheep threat detection system using YOLOv10 model combined with IP cameras, improving real-time predator threat identification accuracy by 40%.
- Engineered a web application leveraging Retrieval-Augmented Generation (RAG) with the Gemini Large Language Model for querying PDFs, reducing query processing costs by 2.79%. Built a robust Python backend incorporated with Firebase for authentication and API calls, ensuring high efficiency & eliminating additional operational costs.

SPEAKHIRE

Software Engineer   *Jul. 2023 - Aug. 2023*
- Led a team of 4 software engineers to build the SPEAKHIRE website, a nonprofit platform supporting college readiness for immigrant students. Developed event pages, mentorship workflows, and user portals using HTML, CSS, JavaScript, React, MUI, and Redux, resulting in a 70% increase in web traffic.
- Collaborated closely with the UI Designer and outreach team to implement intuitive UI/UX designs, leading to a 50% increase in applicants for SPEAKHIRE's leadership courses and significantly boosting overall community engagement.

PROJECTS

Booking App | *React, MongoDB, Docker, Tailwind, Express, DigitalOcean, Redis*   *Mar. 2023 - May 2023*
- Collaborated with 4 peers as a DevOps to build an accommodation booking website using Docker and deployed it on Digital Ocean; streamlined the booking flow and reduced load times by 30%.
- Set up CI/CD pipelines with GitHub Actions and tracked progress using Jira & architecture diagrams; maintained 90+ documented commits for scalable, team-friendly development.

SKILLS

Languages: Python (*NumPy, SciPy, Pandas, Matplotlib, TensorFlow, FastAPI, Django*), Java (*Spring Boot*), JavaScript/TypeScript (*React, Node.js, Next.js, Angular, Vue.js, GraphQL*), HTML, CSS (*Tailwind CSS, Bootstrap, Material-UI*), SQL (MySQL, PostgreSQL, Oracle), NoSQL (MongoDB, DynamoDB), C/C++, C#, .NET, Go, PHP, Bash, Linux (Ubuntu)

Developer Tools: Git/GitHub, Docker, VS Code, PyCharm, IntelliJ, Visual Studio, Eclipse, WordPress, Figma (UI/UX), SQLAlchemy, Roboflow, AWS (Lambda, S3, DynamoDB), Azure, Microsoft Office, Google Workspace