Sriram Seelamneni

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Education

Michigan State University, College of Engineering | 2021-2024
Bachelor of Science, Computer Science
GPA: 3.84
Coursework: Computational Mathematics, Science & Engineering (CMSE) minor, Business cognate

Professional Experience

ProIT Inc - *Airlink Flight School*
Full-stack Software Engineer | 2025 -

- Architected and led development of a production web and mobile management platform replacing fully manual flight school operations, digitizing admissions, grading, reporting, lesson planning, and flight scheduling end-to-end.
- Served as primary engineer in a 4-person team, owning system design, core feature implementation, and delivery across frontend, mobile, backend, and infrastructure.
- Designed secure, role-based workflows using **React, TypeScript, React Native, and Firebase Auth**, supporting students, instructors, and administrators under strict permission boundaries.
- Built scalable backend services with **Python and FastAPI** on **Firestore**, enabling real-time scheduling and training data consistency across platforms.
- Deployed and operated containerized services on **Google Cloud Platform (Docker)**, automating workflows that reduced administrative workload by **~60-70%** and improved operational reliability.

One Community Global
Software Engineer | 2024-2025

- Contributed as a MERN (React.js/MongoDB) full-stack developer to build open-source Highest Good Network software, improving collaboration and code quality.
- Trained as a team manager, helped manage a team of 7, and raised PR issues to improve task allocation and progress tracking.
- Reviewed over 40 PRs & created 15+ PRs, including developing new components, adding features, and fixing critical bugs.

TechSmith
Enhanced Video Assistant (EVA) | 2024

- Developed a production-grade video assistant app as a capstone project, awarded by Auto-Owners among 300 participants.
- Integrated machine learning models to automate audio enhancement, provide multi-layered feedback, and condense video to key moments, improving user experience and efficiency
- Managed the app deployment on Azure web services with Docker, for better scalability and reliability

Computational Mathematics, Science & Eng. dept, MSU
Info-Tech Assistant Intern | 2023-2024

- Engineered and deployed software solutions using C++ and Python to optimize data management processes, improving efficiency across departmental platforms
- Devised software using JavaScript and PyTorch to automate merging and reformatting data from multiple sources, resulting in a more efficient and up-to-date SQL database
- Facilitated the transition from an outdated format to a new, optimized structure, enhancing data accessibility and relevance for departmental use

Projects

Text-to-Action: Natural Language Interface Systems | github/text-to-action

- Built an open-source system translating natural language requests into executable application actions across APIs, chatbots, and voice-driven workflows.
- Architected semantic retrieval and parameter extraction pipelines using LLMs and NER; adopted over **1,500+ installs**.

Picko: Personalized Recommendation System | picko.app

- Developed and shipped a recommendation engine using ML techniques (TF-IDF, cosine similarity, semantic search) for personalized movies, TV shows, and books suggestions.
- Built and optimized a **300K+ item** relational dataset with high-concurrency query paths for real-time recommendations.
- Automated ingestion and refresh pipelines via CI-driven cron workflows, ensuring continuously updated recommendations.

trulyKin: a private family-first social app | trulyKin.com

- Bootstrapped and led development of a full-featured iOS app enabling families to create private networks, share posts, manage events, and map relationships.

- Architected end-to-end systems including mobile clients, backend services, authentication, data modeling, and CI/CD.
- Designed complex relationship graphs, fine-grained privacy controls, real-time communication, and event-driven subscriptions
- Led product from concept to production, managing design, infra, CI/CD, and user testing.

aiso : AI-native social network | 1aiso.com

- Designed and built an AI-driven social platform focused on deep onboarding, personality modeling, and high-signal introductions.
- Engineered a modular AI matchmaking system supporting multiple social categories including co-founder search, hiring, etc.
- Led product design, system architecture, and go-to-market strategy for beta launch

AutoVE: Automated Video Editing Pipeline | github/AutoVE

- Built a text-driven video editing system that converts natural language instructions into structured edit operations.
- Designed backend action-detection and orchestration services in **Python/FastAPI**, enabling deterministic execution of complex edit pipelines.

PyOrcid : Open-source lib for Orcid Integration | github/PyOrcid

- Developed an open-source API client to help researchers and academic institutions to programmatically sync researcher profiles and publication data from ORCID.
- Automated access to public and authenticated datasets, reducing manual profile maintenance for downstream consumers.
- Achieved **1,000+ downloads** across academic and research communities.

Skills

- **Programming Languages:** Python, C++, TypeScript, SQL
- **Frontend & Mobile:** React, React Native, Expo, Tailwind CSS
- **Backend & APIs:** FastAPI, Node.js, RESTful API design, Authentication & Authorization
- **Data & Storage:** PostgreSQL, MongoDB, Firestore, SQLAlchemy, Vector Databases
- **Machine Learning:** PyTorch, scikit-learn, NLP, Recommendation Systems, Semantic Search
- **Cloud & Infrastructure:** Google Cloud Platform (GCP), Docker, CI/CD, Supabase, Cloudflare

Awards and Achievements

- **Auto-Owners Exposition Award** - Enhanced Video Assistant, April 2024
- **Dean's Scholarship** - $75,000 merit-based scholarship, 2021-2024
- **Best Emerging Technology Award** - Brainwaive, January 2023