

Sai Ravi Teja Gangavarapu

[floaredor.vercel.app](#) | [LinkedIn](#) | [GitHub](#)

Location: Pittsburgh, PA

Email: sairavig@cs.cmu.edu | Mobile: (412) 251-7161

SUMMARY

Results-oriented Software Engineer with a Master's background in Scalable Systems. Over 3 years of experience in full-stack, mobile, and distributed systems development. Proven ability to architect resilient solutions, integrate complex APIs, and lead teams to deliver high-performance applications. Strong expertise in AI/ML, cloud infrastructure, and optimizing system efficiency.

TECHNICAL SKILLS

Languages	: Python, C++, Go, JavaScript, TypeScript, CUDA, SQL, HTML
Frameworks/Libs	: React, React Native, Next.js, FastAPI, Django, PyTorch, TensorFlow, Langchain, Pandas, Numpy, React Query, Redux
Databases	: PostgreSQL, MySQL, MongoDB, NoSQL, Redis
Dev Tools/Platforms	: Docker, Kubernetes, AWS, Git, ArgoCD, JIRA, Visual Studio Code
Concepts	: Distributed Systems, Scalable Architectures, REST API, Microservices, CI/CD, Machine Learning, Deep Learning, HPC, Agile

EXPERIENCE

Founding Software Engineer <i>Tapsta</i>	Jul 2024 – Jun 2025 <i>Remote</i>
<ul style="list-style-type: none">Architected and developed end-to-end full-stack social rewards mobile application using React Native, FastAPI, and PostgreSQL.Designed 25+ schema database and optimized client-side operations (caching, debouncing), achieving 30% faster response times and 40% user retention by redesigning onboarding.Integrated Plaid API and developed REST APIs for secure bank connectivity, enabling automated cashback processing and ACH transfers for 1,500+ users.Orchestrated containerized CI/CD pipeline with Docker, AWS, and ArgoCD, reducing deployment time by 70%.Led a team of 3 SDE interns, implementing code review processes that contributed to 30% faster feature delivery.	
SDE Intern <i>Catalog.fi</i>	Apr 2023 – Dec 2023 <i>Remote</i>
<ul style="list-style-type: none">Fine-tuned LLaMA/BERT in PyTorch to teach LLMs to use APIs, achieving 90% natural language to API accuracy and reducing API integration time by 25%.Implemented full-stack crypto analytics platform (React, FastAPI, Postgres, Pandas, Golang) with real-time monitoring and a leaderboard microservice, boosting user engagement by 30%.Improved backend performance using Go and PostgreSQL, supporting \$150M+ trading volume over 30 days with 20% faster queries.	
Research Assistant <i>University of Florida</i>	Feb 2024 – Jun 2024 <i>Gainesville, FL</i>
<ul style="list-style-type: none">Applied transformer architectures for rare disease prediction using genomic models, processing 15,000+ DNA sequences.Developed multi-layer perceptron models using protein embeddings (ESM3) for analyzing RNA-binding proteins.	

EDUCATION

Carnegie Mellon University <i>Master of Software Engineering - Scalable Systems</i>	Pittsburgh, PA Aug 2025 – Dec 2026
University of Florida <i>Senior Cert + Masters coursework in Computer Science (Algorithms, UX, Graphics - 4.0 GPA)</i>	Gainesville, FL Jan 2024 – May 2024

PROJECTS

Project RECON

Raspberry Pi, OpenMPI, GlusterFS

[Source Code](#)

- Architected 8-node **Raspberry Pi 4B compute cluster** with distributed storage, LDAP authentication, and Slurm job scheduling, serving **400+ students**.

OneAIClick.com

Python, React.js, HuggingFace, PEFT/LoRA

[Project Site](#)

- Developed an **LLM fine-tuning abstraction tool** for HuggingFace models, cutting development cycles by **60%** and reducing boilerplate by **75%**.

ACHIEVEMENTS AND LEADERSHIP

- **President, Enigma, the Computer Science Club (2021-2023):** Increased club membership by **40%** (2000+ students) through technical workshops and outreach; collaborated with Ubisoft, NVIDIA.
- **1st Place WaffleHacks 2024 (320+ participants):** Built FlashFocus, a Chrome extension for AI flashcard quizzes using RAG system.
- **1st Place Noderunner Hackathon 2023 (50 teams):** Engineered a distributed cluster implementing Raft consensus protocol from scratch (Python, Flask, Multithreading).
- **Publication:** "Emotion Aligned Music Composition from Sound Fundamentals Using Differential Evolution" – IEEE CEC 24.