

NAVEEN SRINIVAS

+91-9490728548 | naveensrinivas282@gmail.com | linkedin.com/in/naveensrinivas282 | github.com/naveensrinivas282 | naveensrinivas282.vercel.app

EDUCATION

Amrita Vishwa Vidyapeetham

B.Tech in Computer Science, CGPA: 7.85/10.0

Kerala

June 2024 – May 2028

EXPERIENCE

Linux Foundation Mentorship (LFX) – Magma Project

January 2026 – April 2026

Mentee

Remote

- Contributed to Magma, an open-source LTE/5G core, across network management and backend service components.
- Debugged authentication, configuration, and deployment failures in Docker-based environments.
- Shipped changes through maintainer code review, issue discussion, and pull requests; graduated from the program.

amFOSS

January 2025 – Present

Member

Kerala

- Build and maintain backend systems for club infrastructure in Rust, Python, and Django, deployed with Docker and GitHub Actions.
- Work daily in Linux, containerized development environments, and Git-based review workflows.

PROJECTS

Online Exam Proctoring Platform (Prototype) | *FastAPI, Safe Exam Browser, Py2Exe, Docker*

- Prototyped a proctored exam system for ICPC regionals: backend services to receive, process, and manage live participant video and audio streams.
- Configured Safe Exam Browser environments to enforce exam restrictions and connected AI-based monitoring to SEB exam sessions.

Silicon Architect (MCP Server) | *TypeScript, Model Context Protocol, Yosys, nextpnr*

- Built an MCP server with 8 tools that turns a natural-language hardware spec into formally verified RTL and a costed engineering report.
- Ran Yosys and nextpnr (compiled to WASM) in-process; failed proofs return a counterexample and source line so the model repairs the RTL and re-proves.

Root (amFOSS) | *Rust, GraphQL, PostgreSQL, SQLx, Docker*

- Built the leave-tracking feature for Root, the Rust GraphQL backend serving club data to multiple internal services, adding 3 GraphQL operations over PostgreSQL.
- Shipped through the project's develop/production branch model, where merges to production auto-deploy via GitHub Actions.

amMingo | *FastAPI, PostgreSQL, Docker, GitHub Actions*

- Designed the core PostgreSQL schemas, backend middleware, and email/password plus Google OAuth authentication APIs.
- Containerized deployment and automated CI/CD with GitHub Actions.

amFOSS Workshop Registration System | *Flask, PhonePe, Google Sheets API*

- Built registration, payment verification, and participant management backends used by thousands of workshop participants.
- Integrated the PhonePe gateway, Google Sheets sync, automated emails, and QR-coded attendance passes.

ClashAI | *Python, Computer Vision, Reinforcement Learning*

- Built vision-only game agents: a convolutional policy picks the card and drop position from screen pixels, trained by imitation learning, then PPO in a simulator and DDQN live.
- Share one engine across two deck-specific bots, enforced by a parity check; 900+ commits.

HACKATHONS

Nitrostack MCP Hackathon | *Winner*

2026

ICSRF Hackathon | *Winner – BinIt, AI waste management platform (FastAPI backend, team of 4)*

2025

Wikimedia Kochi Hackathon | *Selected participant*

2026

SKILLS

Languages: Go, Rust, Python, Java, TypeScript, C, SQL

Backend: FastAPI, Flask, Django, Spring Boot, Chi, GraphQL, REST APIs

Databases: PostgreSQL, MySQL, MongoDB

DevOps and Cloud: Docker, GitHub Actions, CI/CD, Linux, Azure VM Deployment

Tools: Git, GitHub, Bash, Model Context Protocol