

SANTHOSH KUMAR S

Tiruchirappalli, Tamil Nadu – 621651

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Education

Trichy Engineering College, Tiruchirappalli

Nov 2020 – Jun 2024

B.E. Computer Science and Engineering

CGPA: 7.95/10

Experience

MindGryd Software Private Limited

Jun 2025 – Present

Software Engineer I

- Designed and deployed high-performance backend services using FastAPI with Swagger (OpenAPI) for API documentation and pytest/pytest-asyncio for automated testing, improving API responsiveness, reliability, and scalability.
- Deployed containerized microservices to AWS EKS, integrated AWS S3 for storage, and leveraged AWS Bedrock services (Nova Canvas, Nova Reels) for automated image and video generation.
- Implemented authentication using Google OAuth 2.0 and email/password with JWT, applying the Strategy Pattern to dynamically select signup/signin flows at runtime.
- Developed LangGraph-based agents to execute specialized functions and orchestrate complex workflows, reducing manual operational effort and improving automation.
- Managed CI/CD pipelines with GitLab CI, and used Docker and Docker Compose for reliable containerization and deployments.

HiFresh Agro Private Limited

Nov 2024 – May 2025

Software Engineer (Full-time) — Software Engineer Intern

- Implemented an automated backup solution in Node.js using a daily Cron job to copy MongoDB data to a remote server, and automatically purged backups older than 30 days to ensure disaster recovery readiness.
- Developed Role-Based Access Control (RBAC) with JWT authentication in Express.js to ensure only authorized users access sensitive APIs.
- Built a distributed, queue-based processing system using Node.js and Docker where scheduled jobs are stored in a job queue and processed by worker services; integrated results into Metabase for real-time analytics and improved processing throughput.

Technical Skills

- **Programming Languages:** JavaScript (Node.js), Python, SQL
- **Frameworks & Libraries:** Express.js, FastAPI, LangGraph, Swagger (OpenAPI)
- **Databases:** MongoDB, PostgreSQL
- **Architecture:** Microservices Architecture, Distributed Systems
- **Cloud & DevOps:** AWS (EKS, S3, Bedrock), Docker, Docker Compose, GitLab CI/CD
- **Testing:** pytest, pytest-asyncio, pytest-cov
- **Authentication:** JWT, Google OAuth 2.0, RBAC
- **Tools:** Git, GitHub, GitLab, Postman, Metabase, VS Code, Docker Desktop

Achievements

- Winner at the National Level Tech Hackathon 2023, hosted by CARE College of Engineering. Awarded a cash prize of Rs. 10,000.
- Achieved 50-Day and 100-Day Coding Streak badges on LeetCode, maintaining a 100+ day coding streak, and solved 400+ problems.
- 1st Prize in Technical Quiz at a National-Level Technical Symposium, Roever Engineering College.
- 1st Prize in Code Debugging at a National-Level Technical Symposium, J.J. College of Engineering and Technology.