Aadarsh Prajapati

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About

Full Stack Engineer with a backend-heavy focus, specializing in scalable systems and real-time solutions. Proven success in building microservices, optimizing payment systems, and solving real-world user problems. Experienced in working as an SDE remotely in startups, delivering high-performance, user-driven solutions. Ready to drive innovation and enhance business success in a remote role.

Education

Amrita Vishwa Vidyapeetham *B.Tech in Computer Science and Engineering* — *Sept 2022 – Aug 2026*
- CGPA: 7.0/10
- **Coursework:** Computer Networks, Operating Systems, Data Structures and Algorithms, DBMS, OOPs, Machine Learning, Deep Learning

AIFT Mumbai University *BA in Film, T.V and New Media Production* — *Aug 2021 – Sept 2022*
- CGPA: 8.5/10
- **Coursework:** Film Making, Editing and VFX

Experience

SDE - Intern / Kasicare ⬈ - remote — *Oct 2024 – Present*
- **Architected a library and community platform** for selling and sharing digital resources, integrating a **secure payment system** for error-free transactions.
- **Optimized storage efficiency** by preventing redundant S3 uploads through resource-link mapping, saving costs and **enhancing user experience** by avoiding re-uploads.
- **Implemented dynamic version control**, enabling seamless updates to resources without duplication, ensuring access to the **latest versions**.
- **Automated sitemap generation**, periodically creating sitemaps for all websites and **dynamic content**, sending them to Google Web Crawler, and **achieving higher rankings** for the generated sites.
- **Fixed 30+ critical bugs** and **added 20+ features**, improving system reliability and functionality.
- **Developed advanced search and filters**, enhancing resource discovery and **user satisfaction**.
- Resolved data inconsistencies and managed server traffic using **MongoDB Aggregation Pipelines**, showcasing strong debugging and analytical skills.

Full-Stack Engineer / amFOSS ⬈ - Amritapuri, India — *Nov 2022 – Aug 2023*
- **Engineered full-stack applications** with a focus on performance, security, and cost efficiency, delivering solutions that met high standards of quality and scalability.
- **Automated daily tasks** by developing custom bots, significantly improving productivity and reducing manual workload for team members.
- **Refactored codebases** for optimal performance, maintainability, and security, while **optimizing deployments** to ensure robust and reliable application performance.

Projects

Exchange Platform – Node.js | Docker | Redis | PubSub | Microservices — *GitHub Repo ⬈*
- **Engineered a scalable microservices platform** with efficient APIs for traffic management and **PubSub integration**.
- **Developed WebSocket services for real-time data** exchange and an **Engine service** for dynamic data processing.
- Streamlined deployments using **Docker** and created a **Market Maker service** to simulate market condi-

tions.

Data Engineering ELT FullStack Application - Next.js | FastAPI | Docker | *GitHub Repo* ↗
PostgreSQL | ELT Pipeline
- ○ Developed a **modular ELT application** to process payment and tax datasets.
- ○ Built a **Next.js frontend** and **FastAPI backend** with **PostgreSQL** for data management.
- ○ Designed an **ELT pipeline** for filtering, renaming, and merging datasets.
- ○ **Optimized performance** by moving processing logic to the server.

SpringBoot Backend - Spring Boot | Swagger | Rate Limiting *GitHub Repo* ↗
- ○ Created a **supplier search platform** with search, pagination, and CRUD operations.
- ○ Designed key API endpoints for supplier search and profile management.
- ○ Implemented **input validation, exception handling,** and **rate limiting** for security and stability.
- ○ Documented APIs with **Swagger** for easy navigation.

Skills

Languages: JavaScript, C, C++, Java, Python

Frameworks: Node.js, Express, fastify, Next.js, React, Spring Boot, FastAPI

Tools: Docker, Redis, PostgreSQL, MongoDB, WebRTC

Area of Interest: DevOps, System Design, Data Science, Rust, Web3

Achievements and Certifications

First Prize winner at NASA Space App Challenge Hackathon, Kollam, Kerala *project live* ↗

Global Nomination from Kollam, India for NASA Space App Challenge - 2024

Global Nomination from Kathmandu, Nepal for NASA Space App Challenge - 2022

Participation Certificate - **International Conference on TSUNAMI RISK REDUCTION AND RE-SILIENCE (ICTR3)**

Full Stack + DevOps + System Design Cohort *Certificate* ↗

Extracurricular Activities

Member of **AMFOSS** ↗, Amritapuri - INDIA'S LEADING FOSS & COMPUTER SCIENCE CLUB

Team Lead − Short Film Production *Channel* ↗
- ○ **Led a team of 30+ members** in planning, scripting, and producing a short films, ensuring smooth collaboration and project completion within deadlines.
- ○ Coordinated with various departments including **direction**, **cinematography**, **editing**, and acting to bring the creative vision to life.
- ○ Managed **time**, **resources**, and **communication** effectively to deliver a high-quality final product.
- ○ Developed **leadership, project management, and team-building** skills through hands-on experience in a creative environment.