Aditya Singh

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Github: **Link** Leetcode: **Link**

Education

BTech, Computer Science and Engineering(*AI & ML*):	CGPA: 9.32/10	2022 - present
Shri Ramdeobaba College of Engineering and Management		

Experience

Oorjaa : [Software Development Intern] [May 2025 - present]
- Converted synchronous APIs to **asynchronous FastAPI**, handling roughly **75% more requests** under peak load.
- Introduced a **Test Driven Development** (TDD) workflow with automated tests, shortening development cycles by **30%**.
- Built a **CI/CD pipeline** using **GitHub Actions + Testcontainers**, cutting testing costs by over **40%**.
- Implemented **automated linting/formatting** to enforce standards, improve readability, and ensure **code quality**.
- Architected & deployed a shipment data microservice (**DB schema + APIs**), enabling centralized data access across teams.

Vruksh Ecosystem Foundation: [Software Developer Intern] [Jul 2024 - March 2025]
- Developed **Python and Shell scripts** to automate manual tasks, cutting installation and manual work by **50%**.
- Containerized and orchestrated **10+** services with **Docker + Docker Compose**, streamlining setup significantly.
- Led a **15-member** team, ensuring **100%** of project milestones were delivered on time.
- Deployed Generative AI models on **Azure VMs**, lowering operational costs by roughly **30%**.
- Built and deployed multiple full-stack applications (**Next.js + Supabase**), delivering to client specifications.

Projects

ScrapeFlow - No-code web-scraping platform:
- Built a **Next.js SaaS platform** to scrape both **static and dynamic webpages**, tested on over **1k scrape jobs**.
- Built **webhook** integrations for real-time data delivery to external platforms, improving **accessibility** and **interoperability**.
- Implemented **Puppeteer-based automation** for content extraction and authentication, reducing manual scraping effort by **~70%**.
- Deployed on **Vercel** with **Supabase** as the database, achieving a cost-efficient, serverless architecture with **high availability**.

Evently – Event Booking Platform
- Designed a **scalable** event booking system with **concurrency** control to prevent overselling.
- Built APIs with **FastAPI + DynamoDB**, containerized with **Docker**, and deployed on **AWS Load Balancer + Auto Scaling Group**.
- Ensured code quality with **SOLID principles**, clean architecture, and comprehensive **pytest** coverage.
- Achieved **5,000 Requests/minute** in load tests, validating scalability and reliability.

Puddle - Online peer-to-peer e-commerce platform
- Built a full-stack shopping portal using **Django**, Jinja templates, **SQLite**, and Django ORM.
- Developed clean, **modular**, and **reusable code** by following **SOLID principles** and industry best practices.
- Containerized application with **Docker** and created a **CD pipeline** via GitHub Actions, reducing deployment time by **~60%**.

Certifications

AWS Cloud Practitioner [Link]: Gained hands-on experience with **core AWS services** to design and implement secure, cost-effective, and scalable cloud systems. Worked with the **AWS SDK and CLI** to programmatically manage deployments, and deployed full-stack applications using a **serverless architecture** with API Gateway, Lambda, and DynamoDB, improving efficiency and reducing infrastructure overhead.

ZScaler Zero Trust Associate [Link]: Gained practical expertise in Zero Trust security by implementing **identity and context-based access** policies, enforcing **least-privilege**, and replacing legacy VPNs. Leveraged Zscaler's cloud-native platform to provide secure, scalable, and seamless access to applications and services.

Skills

Programming Languages:	Python, C++, Java, TypeScript
Web-Development:	Next.js, React, Django, FastAPI, Flask, Tailwind CSS, HTML
DevOps:	Docker, AWS, GitHub Actions, Jenkins
Testing:	Pytest, Unittest, Test Containers, Postman
Programming Concepts:	Object Oriented Programming (OOPs), Operating System, Database Management System (DBMS), Design Pattern, Data Structures and Algorithms (DSA), Software Engineering, Computer Networks, SOLID Principles.

Accomplishments:

Competitive Programming : CodeForces **Specialist(1457)** | Leetcode (**1829**)(Top **7%**) | CodeChef **3 stars(1603)**
SIH24 Finalist: one of the top 5 teams at Smart India Hackathon 2024, proposed and designed an end-to-end application for **Ministry of Youth & Sports** received mentorship and guidance from past year winners and Ministry personnel.
Patent: Design patent for an automated system for air-quality monitoring & prediction using **ESP32** and sensor data.
Volunteer work: Google Developer Groups RBU (Competitive Programming Lead) | REEF (Member) | Fridays For Future (Member)