UDAY RAJ VADEGHAR

✉ udayraj.vadeghar@gmail.com | ☎ 7993100614 | in LinkedIn | ⊙ GitHub | </> Leetcode | </> Codeforces | </> Codechef

EDUCATION

Amrita Vishwa Vidyapeetham   **Sept 2021 - May 2025**
B. Tech, Computer Science and Engineering

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, SQL
Web Development: React.js, Next.js, Express, Node.js, REST APIsS
Cloud & DevOps: AWS, Docker, Git, CI/CD, Azure VPS, Nginx
Databases: PostgreSQL, MongoDB, Redis, DynamoDB
Tools: Prisma ORM, K6, Sentry, Supabase, LangGraph
Core Concepts: Data Structures, Algorithms, DBMS, System Design, OOPS

EXPERIENCE

MyCPTrainer | ⧉   **August 2025 - Present**
Founder and Developer
- Built and scaled a competitive programming training platform to **7,000+ users** across many countries in 1 month.
- Handled **200K API requests** in a single day with a median response time of 383ms at peak traffic.
- Used CDN caching strategy to reduce traffic load, achieving a **94%** cache hit rate.
- Implemented Redis in-memory caching to block **300+ malicious IP** requests enhancing security
- Integrated Razorpay payments and onboarded 100+ paid users.

Vuram   **June 2025 – Present**
Software Engineer   *Banglore*
- Deployed an AI Agent workflow and developed an Generative **AI application** with Retrieval-Augmented Generation **(RAG)** for legal documents assistance.
- Designed state management using **LangGraph**, incorporating human-in-the-loop mechanism for persistence.
- Gained exposure to professional software workflows, version control, and collaborative development for UI Path.

DeepDive Labs   **May 2024 – Sept 2024**
Software Development Engineer Intern   *Singapore (Nanyang)*
- Automated financial data synchronization using **AWS Step Functions**, reducing manual processes by 30% for MAS regulatory compliance.
- Designed **S3 file processing pipeline** with AWS Bedrock integration, reducing cloud storage costs by 65% ($700 → $480/month) through TTL policies.
- Pioneered serverless React application using **AWS Lambda/API Gateway** handling 500+ daily transactions with **DynamoDB** Database backend.

PROJECTS

Trazor — E-Commerce Platform | *React, Node.js, PostgreSQL* ⧉   **May 2025**
- Built a full-stack e-commerce platform serving **10,000+ products** with a **React** frontend and **Express.js** backend.
- Optimized **PostgreSQL** queries by **80%** (20ms → 4ms) using **B-tree indexing** and **Prisma** schema migrations.
- Engineered an **RBAC system** with 3 distinct roles (**admin, seller, customer**) using **JWT** authentication.
- Deployed **payment gateway** for processing and **AWS S3** for media storage with automated cleanup policies.

ACHIEVEMENTS

Specialist at Codeforces - Achieved the Specialist title by consistently solving challenging algorithmic problems.
Knight at leetcode -Ranked in the top 5% of LeetCode contests.
Top 90th Percentile - Achieved a spot in the top 90th percentile in the ACM ICPC Preliminary Round.
1st Position - Emerged as the winner of Code-Blind, and Tantrosav a prestigious National Coding Competition.