Anukool Vikram

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Education

IIT Bombay - Bachelor of Technology   Nov 2021 – May 2025
- CGPA: 7.19 / 10.0

Skills

Programming and Software: C, C++, Python, Javascript, Typescript, HTML/CSS, SQL, Dart, Git
Libraries and Frameworks: React.js, Next.js, Node.js, Express.js, Django, PostgreSQL, Flutter, MongoDB

Experience

Software Developer Intern | Soaron Aerospace Pvt. Ltd. – Hyderabad, India   May 2024 – Jun 2024
- Redesigned the user interface for a drone booking platform with Flutter, leading to a **40%** increase in user retention
- Integrated **15+** RESTful APIs to power core features including authentication, payment processing, and drone tracking
- Boosted application responsiveness by **30%** by optimizing data fetching patterns in APIs and restructuring the database

Software Engineer Intern | Research Park – IIT Bombay   Aug 2024 – Sep 2024
- Built a research project registration portal using React.js and Django, for the usage of **50+** employees and **100+** clients
- Designed SQL database and developed **10+** RESTful APIs to manage user data, authentication, registration & approval
- Delivered **4+** key features, from application submission to management dashboard, improving task completion time

Projects

Housing Society Managment Portal   May 2025 – Jul 2025
- Constructed a PERN stack society management platform, designed to handle **1k+** resident profiles & **100+** documents
- Secured the portal using **JWT** authentication and a **3**-role access control system, streamlining administrative tasks
- Leveraged **Cloudinary** for media management and deployed the application on **Render**, maintaining **99.9%** uptime

Realtime Coding Editor   Jan 2025 – Feb 2025
- Built a real-time collaborative editor using **React** and **Node.js** with **WebSockets**, supporting **10+** concurrent users
- Implemented the WebSocket synchronization logic to broadcast changes with an average update latency of **100ms**
- Architected a room management system with **4+** core events to handle session creation, joining, and user state tracking

Amazon Price Tracker   Jan 2025 – Feb 2025
- Created a full-stack price tracking application with **Next.js**, featuring a dashboard to monitor price of **100+** products
- Automated notification using Nodemailer and cron jobs to alert users of price drops of their products every **24** hours
- Boosted data accuracy by **20%** by integrating Bright Data to bypass anti-bot measures on more than **50** product pages

Algorithm Visualizer   May 2024 – Jun 2024
- Developed an algorithm visualization tool using JS, implementing **12+** algorithms including sorting, pathfinding, graphs
- Incorporated real-time play, pause, step, and speed adjustments, improving user comprehension and engagement
- Optimized for datasets upto 150 elements and grid of 60×50, using generator functions, state batching, Framer-Motion

Achievements and Extracurricular

Received the **Exemplary Design** for a high-performance RC Plane by the IIT Bombay Electronics & Robotics Club   (2024)
Ranked in **top 3.5** percentile **IIT-JEE Advanced** of 0.13 M+ & **top 1.2** percentile **JEE Main** of 1.1 M+ candidates   (2021)
Contributed to the removal of **3+** tons of waste from Powai Lake as part of a **400**-member team in a cleanup drive   (2022)
Secured a top-30 finish among **300+** participants in a GC 5K marathon, representing Hostel 5 at IIT Bombay   (2022)