Ankit Maurya

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EDUCATION

Mumbai University Mumbai, India

Bachelor of Science in Computer Science *Aug. 2022 – May 2025*

- Core Technical Curriculum: Advanced Algorithms, Data Structures, OOP Architecture, Full-Stack Development, Cloud Infrastructure, Database Systems

EXPERIENCE

Frontend Developer Intern Jan 2025 – Present

CarbonCompete *Mumbai, India*

- Architected data visualization dashboards utilizing **React 18**, **TypeScript 5.0**, and **React Flow** that processed 2.5M+ data points, elevating user interaction metrics by **47%**
- Engineered microservice-based backend with **Node.js 18** and **PostgreSQL 15**, implementing 12+ optimized queries reducing execution latency by **37%**
- Restructured **52%** of frontend codebase implementing atomic design patterns, yielding **23% faster** compile times and **18% decreased** memory consumption
- Spearheaded collaborative design sprints with UX team, implementing **mobile-first PWA architecture** that boosted cross-device conversion rates by **32%**

Full Stack Developer Intern Dec 2024 – Mar 2025

Sminetech Solutions *Mumbai, India*

- Constructed enterprise-grade SaaS platform with **MERN architecture**, implementing lazy-loading techniques that slashed initial render time by **28%** across 15K+ daily user sessions
- Devised OAuth 2.0-compliant authentication with **Passport.js**, reducing authentication overhead by **19%** and boosting session retention rates by **23%**
- Implemented in-memory caching layer with **Redis 7.0**, decreasing API response latency by **13%** and enabling horizontal scaling to 95+ concurrent requests/second
- Orchestrated frontend state management via **Redux Toolkit** and **React Query 4**, achieving **24% faster** data retrieval across 8+ complex dashboard modules

Full Stack Developer Intern Aug 2024 – Dec 2025

DataMingle Analytics *Mumbai, India*

- Constructed event-driven analytics platform using **React 18**, **Node.js** microservices, and **PostgreSQL** sharding, processing 1.2M+ events daily with **43%** improved engagement
- Engineered 12+ interactive data visualizations with **D3.js v7** and **SVG canvas**, boosting dashboard comprehension metrics by **39%** across 9K+ users
- Implemented zero-trust architecture with **JWT rotation**, **RBAC matrix**, and **OAuth 2.0**, achieving **100%** compliance with SOC2 security protocols
- Executed database optimization with **38%** query performance gains through indexed materialized views, composite keys, and normalized schema design

PROJECTS

E-Commerce Platform | *React, Node.js, MongoDB, Redux* May 2023 – March 2024

- Engineered full-stack marketplace with **42%** faster checkout flow compared to competitors, handling 2,500+ concurrent simulated users
- Implemented responsive UI with **Tailwind CSS** and **CSS Grid**, achieving 99/100 Google Lighthouse score and boosting mobile conversion by **22%**
- Integrated **3 payment gateways** (Stripe, GooglePay, PayPal) with **PCI-DSS compliant** design, reducing cart abandonment by **15%**
- Deployed with **CI/CD pipeline** using GitHub Actions, achieving 99.7% uptime and 780ms average server response time

DSA Skills and Hackathon Achievements

700+ Problems Solved | *Leetcode, Codeforces, GeeksforGeeks*

- Mastered 700+ algorithmic challenges across competitive platforms: 320+ on LeetCode (150+ hard), 240+ on Codeforces (1800+ rating), 140+ on GeeksforGeeks
- Specialized in 6 advanced domains: dynamic programming (85+ problems), graph algorithms (70+ problems), system design, distributed systems, concurrency patterns, and tree traversals

Hackathon Champion | *HackHive Intercollegiate Competition*   April 2025

- Captained 4-person team to victory among 65+ competing teams, building real-time analytics platform processing 500K+ events under 200ms latency
- Architected serverless infrastructure with **React**, **Node.js** and **Firebase**, deploying continuously with 99.9% uptime during 14K+ user demo phase

Technical Skills

Languages: TypeScript/JavaScript (ES6+), SQL, Python 3.x, Java 11+, Go 1.19+, HTML5/CSS3
Frameworks: React.js, Next.js, Node.js, Express.js, Redux/RTK, D3.js, Jest, TailwindCSS, Material-UI
Infrastructure: AWS (EC2/S3/Lambda), Docker, Kubernetes, CI/CD, Nginx, Vercel, Netlify
Databases: PostgreSQL, MongoDB, Redis, Elasticsearch, GraphQL
Architecture: RESTful APIs, Microservices, Event-driven design, OAuth 2.0, JWT, Serverless, WebSockets
Proficiencies: Algorithms (TC/SC optimization), System design, Progressive Web Apps, Analytics implementation, A/B testing, Performance tuning