Utkarsh Ahuja

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Experience

Plazza | Software Engineer Intern

Nov'24 – Feb'25 | Bengaluru, India

- Order service with real-time sync, auto-retries, data cleanup to reduce errors and improve order processing.
- Payment processing pipeline with Razorpay integration, automated reconciliation with 99.9% reliability.
- Elasticsearch cluster on AWS EC2 with Nginx, achieving sub-70ms query times for 8GB+ documents.
- Geospatial service for polygon-based serviceability, real-time ETAs, and closest address detection.
- Search service with custom fuzzy matching algorithms, reducing query latency from 240ms to 60ms.
- Notification system with 99.9% delivery rate, ensuring real-time updates across multiple channels.
- Operations dashboard in T3 stack with server-side pagination and efficient caching for 70% faster loads.
- Event tracking system with optimized schema design, ensuring minimal latency.

EL-FI Homes | Software Engineer Intern

Sept'23 - Nov'23 | Remote - California, U.S.

- Developed a tool for analyzing solar panel savings with advanced algorithms, increasing qualified leads by 25%.
- Implemented a secure admin system using **Node.js** with role-based access control, boosting efficiency by 30%.
- Built a responsive frontend using **Next.js** and **TypeScript**, integrating **Chart.js** for insightful visualizations.
- Deployed the application on AWS, implementing CI/CD pipelines to ensure 99% uptime and handle high traffic.
- Enhanced system performance with load balancing and caching, reducing latency by 40%, improving user experience.

Stealth Startup | Backend Developer Intern

March'23 - August'23

- Built a community management portal serving 1000+ users with secure profile management
- Implemented Redis caching for frequently accessed data, cutting average API response time from 300ms to 100ms
- Integrated Google OAuth2.0 for secure authentication, reducing login failures and improving user onboarding
- \bullet Added automated email notification system with for event updates and reminders, achieving 98% delivery rate
- Created admin dashboard with React.js for managing user profiles and events, reducing task completion time by 35%

Open Source Contributions

Appwrite | PHP

- Integrated Zoho OAuth Provider to Appwrite Authorization PR
- Reduced extra data usage in API requests by 15% through optimizing internal attributes and updating E2E tests. PR

Projects

WikiSearch $\mid C++$, Information Retrieval, TF-IDF, Web Indexing

 $Github \mid Preview$

- High-performance search engine in C++ processing 25M Wikipedia articles with 0.3s average response time
- Designed custom indexing algorithm reducing memory footprint by 70% while maintaining search accuracy and speed
- Implemented TF-IDF ranking with optimized inverted index structure for efficient document retrieval and scoring
- Built scalable web interface with robust error handling and caching, serving 100+ concurrent search requests

Synkrō | Node.js, GraphQL, MongoDB, Docker, RabbitMQ, Redis

Github

- Designed ecommerce microservices architecture using **GraphQL** with isolated services for users, products and orders.
- Implemented event-driven architecture with RabbitMQ for reliable communication and data consistency
- Optimized performance using Redis caching, JWT auth, and MongoDB queries for robust data handling
- Containerized services with **Docker** and implemented **CI/CD** pipeline using GitHub Actions for automated deployment

Skills

Languages: C/C++, JavaScript, TypeScript

Technologies: Next.js, Node.js, React.js, MongoDB, PostgreSQL, Tailwind CSS

Frameworks & Methodologies: Git, Bitbucket, Jira, Agile (Scrum)

Education

Guru Gobind Singh Indrapastha University

2021 - 2025

B. Tech. in Information Technology

CGPA: 8.6

Achievements

- Finalist Smart India Hackathon 2023
- Ranked Knight (Top 5%) LeetCode (ahuja_utkarsh)
- Ranked 3rd from 80+ teams in the VIT HackHub 2022 Project Link
- Achieved Rank 1736 in CodeKaze September 2023 out of 100k participants