Utsav Rai

Gopalganj, Bihar, India

 J +91-8423829911
 ■ utsavrai2115@gmail.com
 In linkedin.com/in/utsav-rai-16167b1b6
 Q github.com/utsxvrai

Education

Jaypee University of Engineering and Technology

Bachelor of Technology in Computer Science and Engineering (GPA: 8.6/10)

Aug. 2022 - Present Guna, Madhya Pradesh

Projects

Flight-Service | Node.js, Sequelize ORM, RabbitMQ, Redis, MySQL, Docker, Kubernetes

January 2025

- Developed a scalable microservices-based backend system for flight management, enabling efficient handling of flight booking, pricing, and user authentication for 500+ concurrent users, improving response time by 20%.
- Implemented RESTful APIs using Node.js and Express.js, with Sequelize ORM for streamlined database interactions with MvSQL.
- Utilized RabbitMQ for asynchronous communication between services and Redis for caching, improving system
 performance by 25%.
- Deployed the application using Docker and Kubernetes for containerization and orchestration, ensuring seamless scalability.

JUETPlay App | Node.js, PostgreSQL JWT/OAuth2

April 2024

- Built JUETPlay using Node.js, a scoring app for campus sports, handling player data and scores in the back-end.
- Integrated PostgreSQL, REST API with Express.js, JWT/OAuth2 authentication, Redis caching, and async/await for concurrency, with Winston logging.
- Added Docker, CI/CD with GitHub Actions, unit tests with Mocha and Chai, WebSocket with ws library for real-time updates, and Prometheus/Grafana monitoring.
- Handled player data for 200+ athletes, maintaining a secure and efficient database with PostgreSQL.

GoShopHub | Go, REST API, Microservices, GraphQL, ElasticSearch

March 2025

- Architecting RESTful APIs with Go to handle product listings, user authentication, and order management.
- Integrating a PostgreSQL database with ORM for secure and efficient data storage. ElasticSearch for advanced product search, achieving a query response time of under 50ms for 1,000+ products.
- Architected APIs processing 1,500+ requests per minute with 99.99% uptime.

Experience

Bitwise August 2024 – Present

Problem Setter Guna

- Designed 20+ problems for coding contests, each tested against 10+ edge cases for comprehensive validation.
- Crafted problems of varying difficulty levels, including test cases to ensure fairness and challenge, enhancing my understanding of problem complexity and solution validation.
- Collaborated with club members to develop and review contest problems, contributing to events with 100+ participants, helping prepare members for competitive platforms like Codeforces and LeetCode.

Achievements

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Demonstrated problem-solving and coding skills by winning Kodethon twice, competing against 100+ skilled programmers.

⟨/> Competitive Programming Achievements

Solved over 1000 questions across platforms: $\$ CodeChef (Highest Rating: 1782), $\$ LeetCode (Rating: 1701), $\$ Codeforces (Rating: 1304).

 ₩inner - Freshmen Hacks Hackathon

Led a 4-member team to develop the project *Present Sir*, securing 1st place in the Freshmen Hacks Hackathon for innovation and technical proficiency.

Technical Skills

- * Programming Languages: C, C++, Python, JavaScript, Shell Scripting, GO
- * Technologies & Frameworks: React, Svelte, Node.js, Express, Tailwind CSS, MongoDB, Redis
- * Tools & Platforms: AWS, Linux, VS Code, GitHub, Git