

Rahul Hiragond

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Summary

Enthusiastic Software Engineer with expertise in backend development using Python, Django Rest Framework, and Celery, specializing in scalable system design and performance optimization. Skilled in integrating third-party APIs, asynchronous workflows, and advanced caching techniques for seamless functionality. Proven problem-solving skills with notable achievements in algorithmic contests and full-stack project development.

Technical Skills

Technical: C, C++, Python, Data Structures, Algorithms, Git, Linux, Django, DRF, Celery, Flask, AWS, PostgreSQL, Redis
Non Technical: Teamwork, Leadership, Versatility, Problem Solving, Chess

Education

MIT Academy of Engineering, Pune 2021 - 2025
Bachelor of Technology in Computer Science and Engineering **CGPA: 8.90**

- **Technical Courses:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Object Oriented Programming, Computer Networks, Analysis and Design of Algorithms

Shri Ramrav VidyaMandir and junior college Jath, Sangli 2019-2021
Senior Secondary (Class XII) **Percentage: 91.50**

Work Experience

Software Engineer Intern - Bynry Inc May 2024 – Present

- Reduced API response times from 30 seconds to under 400 - 200 milliseconds by optimizing SQL queries and implementing Redis caching, significantly improving system performance.
- Designed and implemented a microservice for activity log management, separating audit and business logs to enhance log tracking and analytics.
- Integrated third-party APIs with asynchronous workflows using Celery and Cron, enabling scalable daily meter reading operations and improving efficiency.

Software Engineer (Freelance) - Massive Dynamics Jan 2024 – March 2024

- Designed and implemented a robust backend architecture using Django Rest Framework and MongoDB, enabling artists to seamlessly showcase, sell, and donate their artworks.
- Integrated a secure payment system and optimized APIs to enhance user experience, ensuring smooth transactions and efficient platform performance.

Programming Achievements

- Secured 2nd place in CodeSprint 2024, a contest focused on advanced data structures and algorithmic problems
- Codeforces: Maximum Rating – 1135 (Newbie) solved over 300 problems [Profile](#).
- CodeChef: Maximum Rating – 1601 (3*) solved over 200 problems [Profile](#).
- LeetCode: solved over 100 problems [Profile](#).

Technical Projects

Rule Engine Platform - [GitHub Link](#) | AST(Abstract Syntax Tree), Python, Django, PostgreSQL, React.js, Bootstrap

- Designed and implemented a full-stack Rule Engine platform, utilizing Abstract Syntax Trees (AST) for the dynamic creation and evaluation of complex business rules, enabling flexible rule management.
- Developed the backend using Python and Django, ensuring efficient rule evaluation and integration with PostgreSQL for data persistence, while the frontend used React.js and React JSON Tree to display and interact with rules.

Result Analysis System - [GitHub Link](#) | Django, Python, PostgreSQL, Bootstrap

- Designed and developed a university database system to manage courses, students, exams, and results, ensuring seamless integration between backend and frontend.
- Built frontend using HTML, Bootstrap, and Django Templates, while optimizing the database schema with proper normalization and indexing to handle large-scale student data, ensuring faster query responses and data integrity.

Certifications

Mastering Data Structures and Algorithms using C and C++ - [Certificate Link](#) | C, C++, Creative Problem Solving, Data Structures
IBM Full Stack Software Developer - [Certificate Link](#) | Github, python, Django, Sql, PostgreSQL