Yug Arora

Backend Developer | Node.js | REST APIs | Redis | MongoDB | PostgreSQL

✉ arorayug07@gmail.com   GitHub   🔗 Portfolio   LeetCode

PROFILE

PROFILE
Backend Developer with hands-on experience building and deploying scalable REST APIs using Node.js, Express.js,
MongoDB, PostgreSQL, and Redis. Strong experience in JWT-based authentication, role-based access control, caching strategies, and API optimization. Built production-ready backend systems with focus on performance, security, and clean architecture. Actively seeking Backend Developer / Backend Intern roles.

EDUCATION

B.Tech in Computer Science Engineering
Chitkara University, Punjab
CGPA: 7.59 / 10 (up to 4th semester)
Expected Graduation: 2027

TECHNICAL SKILLS

TECHNICAL SKILLS
Languages: JavaScript, Java, Python
Backend Technologies: Node.js, Express.js, REST APIs, JWT Authentication, Role-Based Access Control
Databases: MongoDB, PostgreSQL, SQL
Caching & Messaging: Redis
Tools & Platforms: Git, GitHub, Postman, Linux, Render
Core Concepts: Data Structures & Algorithms, OOP, API Design, Debugging, Backend System Design

---

EXPERIENCE

Backend Developer — Hackathon Project
Hack Summit 2025 | Team of 4 | GitHub: https://github.com/yug005/pranika
•Built a full-stack web application prototype during a 24-hour hackathon
•Developed backend services using Node.js and REST APIs
•Implemented core backend functionality and integrated frontend with backend
•Collaborated with team members to design, build, and deliver a working prototype

---

PROJECTS

Color Clash Multiplayer (CCM) — Real-time Multiplayer Web Application
Live: https://ccm-xy1v.onrender.com/ | GitHub: https://github.com/yug005/CCM.git
• Designed and developed scalable REST APIs using Node.js and Express.js for real-time multiplayer gameplay
• Implemented secure JWT-based authentication and role-based access control
• Integrated Redis for caching, session management, and real-time game state synchronization
• Optimized API performance and reduced response latency using efficient backend logic
• Deployed and managed production backend services on Render

NeuroNotes — Backend Task Management API
Student Task Manager
GitHub: https://github.com/yug005/NeuroNotes.git
•Developed RESTful backend APIs using Python for note and task management
•Implemented CRUD operations with structured data handling and validation
•Tested and documented APIs using Postman
•Focused on backend logic, request handling, and API reliability

OS Simulator
GitHub Link: https://github.com/yug005/OS_simulator.git
•Built an operating system simulator to model CPU scheduling and memory management
•Implemented process scheduling algorithms and memory allocation strategies
•Designed modular components focusing on correctness and system behavior
•Strengthened understanding of low-level system operations and resource management