VARUN SUDDALA

India ◇ Open to Remote & Onsite

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OBJECTIVE

Backend-focused Computer Science student with hands-on experience in Python, RESTful API development, PostgreSQL, Docker, and Linux. Seeking backend developer internship or fresher software engineer roles to build scalable, secure, and high-performance backend systems.

EDUCATION

Bachelor of Technology in Computer Science   2024 – 2027
SR University, Warangal, Telangana, India
Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks

SKILLS

Programming Languages	Python, SQL
Backend Technologies	RESTful APIs, FastAPI, Flask, JWT Authentication
Databases	PostgreSQL, MongoDB, Redis (Caching)
DevOps & Tools	Docker, Git, Linux, Nginx
System Design	API Design, Scalability, Caching, Basic Microservices
Testing	Unit Testing, Integration Testing (PyTest)
Cloud Platforms	AWS (EC2, S3, IAM fundamentals)

PROJECTS

Scalable Task Management REST API
Developed a RESTful backend service using Python and FastAPI with JWT-based authentication and role-based access control (RBAC). Designed PostgreSQL database schema with indexing, pagination, and input validation. Containerized the application using Docker and deployed it behind an Nginx reverse proxy.

URL Shortener with Redis Caching
Built a high-performance URL shortening service using Python, PostgreSQL, and Redis caching to reduce database queries and improve API latency. Implemented hash-based short URL generation, expiration handling, and concurrency-safe request processing.

Authentication and Authorization Service
Implemented secure authentication and authorization using password hashing, JWT access and refresh tokens, and OWASP Top 10 security practices. Added unit and integration tests to ensure API reliability, correctness, and security.

EXPERIENCE

Academic and Self-Directed Backend Development   2024 – Present

- Designed and developed backend services following clean architecture and software engineering best practices.
- Implemented RESTful APIs with authentication, authorization, error handling, and database integration.
- Used Git for version control with structured commit history and collaborative workflows.
- Focused on writing maintainable, testable, and scalable backend code.

EXTRA-CURRICULAR ACTIVITIES

- Regularly practice data structures, algorithms, and backend system design concepts.
- Actively improving knowledge of cloud computing, DevOps practices, and CI/CD concepts through hands-on projects.