Shubham Singh

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Technical Skills

Backend Development: Python (Django, FastAPI, Flask), RESTful APIs, System Design, SQL, Celery, Microservices
Database & Cloud: PostgreSQL, Elasticsearch, Redis, AWS (EC2, S3), Azure, Zscaler ZIA cloud
AI/ML & DevOps: Model Context Protocol (MCP), LLM Integration, Predictive Analytics, Docker, CI/CD (Jenkins), Git

Work Experience

Sierra Wireless (Semtech)
Pune, India
Software Engineer 2
Sept 2023 - Present

- Developed a FastAPI application on Azure App Service with PostgreSQL backend for test result analytics that reduced debugging time by 40%.
- Integrated MCP with test result data, reducing recurring failures by 35% and uncovering patterns across 1,000 daily tests.
- Optimized core web service by migrating from Elasticsearch to PostgreSQL, resulting in a 97-second reduction in latency and significantly enhanced user experience.
- Designed and implemented Jenkins CI/CD pipelines with automated testing, reducing deployment time by 60% and increasing release frequency from monthly to weekly cycles.
- Accelerated junior developer onboarding, reducing production bugs by 20% through code reviews focused on standards and architecture.
- **Technical Skills:** Python, Django, FastAPI, PostgreSQL, RESTful APIs, database design, Stored Procedures

Zscaler
Mohali, India
Associate Software Engineer
Dec 2021 - Feb 2023

- Engineered resilient REST APIs supporting automatic tunnel failover, resulting in 98.9% uptime for critical cloud services used by enterprise clients.
- Improved API response time by 45% under peak load via optimized queries and caching.
- Updated technical documentation post-release to align with user feedback and improve onboarding.
- **Technical Skills:** Python, Django, Linux, RESTful APIs, Ubuntu Linux, Linux tools, Scripting, Git.

Zscaler
Mohali, India
Intern - Cloud Reliability
Mar 2021 - Nov 2021

- Revamped and deployed automated test scripts for ZCC cloud builds that identified 15+ critical issues before production release.
- Created a cross-platform testing solution using Sikuli and OpenCV that reduced manual QA effort by 40% for repetitive workflows.
- **Technical Skills:** Python, Django, Fedora, RESTful APIs, Ubuntu Linux, Linux tools, Scripting, Git.

Projects

Natural Language Querying AI chatbot
India

2020
Project Link : https://github.com/sxcluzive/Slack-Bot

- Developed a Slack bot enabling users to interact with a SQLite database using intuitive natural language queries.
- Integrated Google Bard API for accurate natural language understanding and SQL query translation.
- **Technical Skills:** Slack-Bolt Python Framework, Google Bard API, Docker, SQLite

E-commerce API
India

2020
Project Link : https://github.com/sxcluzive/ecommerce-api

- Built e-commerce backend with FastAPI, PostgreSQL and SQLAlchemy to explore modern API patterns.
- Implemented asynchronous request handling with asyncio to maintain performance under concurrent user load.
- Designed indexed relational DB schema for efficient e-commerce operations filtering and search.
- Created a testing framework with pytest, practicing test-driven development methodologies while learning API best practices.
- **Technical Skills:** FastAPI, Celery, Asyncio, Redis, authentications using JWT, API design

Education

Lovely Professional University
India
B.Tech in Information Technology
July 2021

Relevant Courses: Virtualization & Cloud Computing, Data Structures & Algorithms, Operating Systems, DBMS, Software Development