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EDUCATION

National Institute of Technology Kurukshetra

- Bachelor of Technology CGPA: 8.46

Kurukshetra, India

July 2019 - June 2023

EXPERIENCE

Oracle

- Associate Consultant

Pune

Aug 2023 - Present

- Designed and implemented scalable RESTful microservices for the Interest & Charges module of FCUBS by migrating processing logic from PL/SQL to Java Spring Boot, reducing production issues by 20% and improving service response time.
- Built a Python (Flask) automation tool for module-wise, client-ready Excel report generation directly from FCUBS data, eliminating manual data extraction and SQL execution, and reducing pre-delivery processing time significantly.
- Optimized the Java service layer and plsql-based processing logic, improving system performance by 30% and significantly reducing EOD (End of Day) execution time.
- Resolved critical defects in Java, Python and plsql systems through rigorous testing and debugging on Linux-based environments, improving system reliability and reducing downtime of critical services.

IIT Madras

- Python Academic Mentor

Remote

Aug 2022 - Oct 2022

- Mentored students in Python programming, data structures, and algorithmic problem-solving through hands-on coding exercises and best coding practices

SKILLS SUMMARY

- Languages:** Python, Java, JavaScript, SQL
- Backend:** FastAPI, Flask, REST APIs, Microservices, SQLAlchemy, Spring Boot, Hibernate
- Databases:** PostgreSQL, Oracle Database, Redis, MongoDB
- Frontend:** TypeScript, React.js, Vue.js, Tailwind CSS, HTML
- Tools:** GIT, Linux, Bash

PROJECTS

Academic Portal - A full-stack Web App

- Developed a scalable academic portal providing course management, content delivery, and academic analytics using agile methodologies with iterative sprints and continuous feedback.
- Built RESTful backend services using FastAPI and PostgreSQL, supporting authentication, role-based access, file uploads, and core academic workflows.
- Implemented JWT-based authentication, modular API design, and backend monitoring to ensure software reliability.
- Integrated an AI-assisted chatbot using Python and external AI APIs to support learner queries and improve content accessibility.
- Tech Stack:** Python, FastAPI, PostgreSQL, JavaScript, Vue.js, Nodejs, Tailwind CSS, REST APIs, JWT, OAuth

Quantified Self Tracking System

- Designed and developed a backend-centric personal platform with RESTful services for data ingestion and reporting.
- Built backend services using Python (Flask), SQLAlchemy, and Redis with modular architecture and optimized data access.
- Applied asynchronous background processing using Celery for report generation and scheduled tasks.
- Automated report delivery using WeasyPrint and integrated email notifications via Flask-Mail and SendGrid.
- Improved system performance by 25% through caching, scheduled jobs, and token-based authentication.
- Tech Stack:** Python, Flask, SQLAlchemy, Redis, Celery, SQLite, REST APIs, JavaScript, Vue

Smart Contact Manager System

- Created a secure full-stack contact management MVC application with backend-driven workflows.
- Designed and enforced RESTful APIs using Spring Boot and PostgreSQL for user and contact management.
- Applied authentication and role-based authorization using Spring Security and OAuth.
- Integrated Cloudinary for cloud-based image storage and retrieval of user profile data.
- Tech Stack:** Java, Spring Boot, Spring Security, OAuth, PostgreSQL, Cloudinary, REST APIs

CERTIFICATIONS

- Diploma in Programming and Data Science - IIT Madras
- HTML, CSS, JavaScript for Web Developers - Coursera
- Linux Commands and Shell Scripting - IBM