Aman Pratap Singh

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PROFILE SUMMARY

Full Stack Developer with 2.8 years of experience delivering production-grade web platforms. Proven expertise in designing async REST APIs using FastAPI and Flask, optimizing PostgreSQL databases, and containerizing services with Docker for cloud-native deployments. Experienced in integrating AWS services (S3), building real-time background tasks using Celery and asyncio, and deploying pipelines using GitHub Actions on GCP. Strong focus on clean architecture, measurable performance improvements, and cross-functional collaboration.

KEY COMPETENCIES / TECHNICAL SKILLS

Languages & Frameworks: C++, Python Django, FastAPI, JavaScrip, Node.js, Express.js, React.js, Next.js.
Databases: PostgreSQL, MSSQL, MongoDB, Redis.
DevOps Tools: Docker, GitHub Actions, CI/CD, GCP, AWS, Shell Scripting, Postman.
Concepts: REST API Design, Numpy, Pandas, DSA.

PROFESSIONAL EXPERIENCE

Kitaabh Technologies Private Limited   June 2024 - Present
Software Development Engineer I
Key Responsibility
- Developed and scaled 80+ **RESTful APIs** across accounting modules like invoicing, ledgers, GST, reports, audits, and balance sheets using **FastAPI** and **PostgreSQL**.
- Automated **CI/CD pipelines** with **GitHub Actions**, **Docker**, and shell scripting for efficient and consistent deployments.
- Built reusable backend workflows for reporting, language support, dashboards, and invoice data processing.
- Boosted performance by **40% via async APIs**, DB indexing, and response optimization.
- Reduced reporting lag by **60% by modularizing logic** and improving data streaming.

Kiasa International Pvt. Ltd.   June 2023 - May 2024
Software Development
Key Responsibility
- Developed over 30+ secure **RESTful APIs** using Python and MSSQL, integrating robust authentication **(JWT/OAuth2)** and encryption protocols for data security.
- Optimized backend logic and query performance, **achieving a 10%** reduction in API response time through code refactoring and MSSQL tuning.
- Engineered scalable solutions for the **Safeobuddy** platform, improving UX and increasing traffic by 15% through better API structuring and frontend-backend synergy.
- Delivered **92% production-ready code** within Agile sprints, meeting tight deadlines and supporting global clients like Amazon, Flipkart, and Dart (USA, Kenya).

Galaxy Time Tour (Freelance / Industry Collaboration)   May 2022 to Dec 2022
Full Stack Developer
Key Responsibility
- Collaborated with a travel agency to deliver a production-grade booking platform built using React.js & FastAPI.
- Reduced frontend load time by 20% and automated 90% of manual ops.
- **Improved performance** with lazy loading and automation, reducing manual tasks by 90% and load time by 20%.

EDUCATION

Bachelor of Technology – Computer Science & Engineering
Dr. A.P.J. Abdul Kalam Technical University (AKTU), June 2019 - April 2023
Relevant Coursework:
- Computer Architecture, Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, Web Development, Database Management Systems.