PAVANKUMAR HEGDE

Software Development Engineer | Data Engineer | Python Backend | Claude Certified Architect - Professional

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PROFESSIONAL SUMMARY

Software engineer with experience building backend applications, APIs, event-driven data workflows, and cloud-based enterprise solutions. Hands-on with Java, Python, REST APIs, Apache Kafka, Azure, databases, and scalable application architecture. Experienced across the full development lifecycle, from requirements and design through implementation, testing, deployment support, documentation, and maintenance. Strong problem-solving mindset with a track record of quickly learning new technologies and collaborating with distributed teams.

TECHNICAL SKILLS

Programming: Java, Python, SQL, Dart, Flutter
Backend & APIs: REST APIs, Django, Django REST Framework, API design, microservice-oriented architecture
Cloud & Data: Microsoft Azure, Azure Data Factory, Databricks, Azure Storage, PySpark
Distributed Systems: Apache Kafka, event-driven processing, batch processing, real-time data ingestion
Databases: MySQL, MariaDB, PostgreSQL, SQLite
Engineering: Data Structures & Algorithms, OOP, system design, Git/GitHub, Postman, Swagger/OpenAPI
AI-Assisted Engineering: AI-assisted development, prompt engineering for code, debugging, tests and technical documentation; responsible review of AI-generated code

PROFESSIONAL EXPERIENCE

Data Engineer / Software Engineer | Tata Consultancy Services Ltd, Bengaluru **Nov 2025 - Present**

- Design and support scalable Azure-based enterprise data services integrating multiple source systems and processing datasets exceeding 1M records.
- Developed 5+ real-time and batch ingestion workflows using Apache Kafka, Spark/PySpark and cloud services, applying event-driven and distributed processing patterns.
- Monitor, troubleshoot and optimize 5+ production workflows for reliability, performance and data quality while collaborating with client stakeholders and geographically distributed teams.
- Work across requirements, implementation, testing, code-quality checks, documentation and production support using Git/GitHub, SonarQube, Black Duck and related engineering tools.

Software Developer | IOP Technologies LLP, Bengaluru **Jan 2025 - Nov 2025**

- Designed and developed backend APIs and application features across customer-facing products using Python/Django, REST APIs, databases and mobile clients.
- Built scalable automation workflows processing 2,000+ business records with configurable templates, dynamic data integration, reminders and escalation logic, reducing manual effort by 60%.
- Implemented secure REST integrations, offline synchronization, SQLite encryption and biometric authentication while contributing across design, development, testing and maintenance.
- Worked on multi-platform application modules and rapidly adopted unfamiliar technologies to meet changing product and client requirements.

PERSONAL PROJECTS

OrgSpace – API Administration Platform

- Designed a unified platform for managing multiple web/mobile products, APIs, users, files, application configuration and project-level resources with reusable backend infrastructure.
- Implemented role-based access control, project isolation, API management, analytics and maintainable service-oriented backend components with a focus on scalability and governance.

JobMate – Published Android Application

- Developed and published a mobile product for job-application tracking and resume customisation, applying clean architecture, local data management and product-focused iterative development.

CareBridge – Tata ProEngage | WinOverCancer (Volunteer Contribution)

- Served as Technical Lead and Full Stack Developer for a healthcare platform, contributing to architecture, backend REST APIs and mobile application delivery while coordinating a six-member team.
- Owned technical delivery activities including requirements translation, design decisions, implementation, API documentation, testing coordination and quality review.

EDUCATION

Bachelor of Technology – Computer Science and Engineering | PES University, Bengaluru **2020 – 2024**

Diploma – Computer Science and Engineering | Shree Vidyadhiraja Polytechnic College, **2017 – 2020**

CERTIFICATIONS

Claude Certified Architect – Professional
Claude Certified Associate - Foundation
Android Developer - Internshala Trainings | Databricks Fundamentals