

PRAVIN KUMAR

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EDUCATION

BITS Pilani - Work Integrated Learning Program

M. Tech Software Engineering *GPA: 7.3*

Bengaluru

Sept 2023 - Jun 2025

EXPERIENCE

SAP Digital Manufacturing Cloud, SAP Labs India

Associate Developer

Bengaluru

Sept 2023 - Present

- Led migration of 10+ microservices from Cloud Foundry to Kubernetes, enhancing scalability and reducing deployment time by 30%.
- Optimized API performance using Dynatrace for monitoring and debugging, identifying and resolving bottlenecks in real-time production environments.
- Developed and deployed a microservice with 20+ RESTful APIs using NestJS framework, serving 70K+ daily requests across manufacturing execution and shop-floor integration modules.
- Implemented Kafka-based event streaming and data caching mechanisms, ensuring data consistency across cloud and edge systems with zero downtime during sync operations.
- Integrated Temporal workflows for master data synchronization across microservices.
- Configured Horizontal Pod Autoscaler (HPA) and Kubernetes Event-driven Autoscaling (KEDA) for Kubernetes pods, improving resource utilization and handling peak loads efficiently.
- Automated repetitive tasks with Bash shell scripts, saving the team 10+ hours per week in operational overhead.

Zilliot Technologies

Intern

Mangaluru

Aug 2022 - Mar 2023

- Conducted R&D on data collection pipelines and built ML regression models, processing datasets of 1,00,000+ records to predict outcomes with 85% accuracy.
- Designed and implemented RESTful APIs using Django framework, supporting seamless integration for IoT and Cloud applications.
- Deployed and monitored applications on Google Cloud Platform (GCP), utilizing tools like Grafana for real-time metrics and ensuring 99.9% uptime.
- Aggregated and stored IoT device data in cloud databases, handling high-volume streams to support scalable analytics.

SKILLS

Programming Languages: Java, Typescript, Python, Go, C++, SQL, Bash
Frameworks & Libraries: Java Springboot, NestJS, Flask, Django, React, Angular, ExpressJS
Tools & Technologies: Kubernetes, Grafana, ELK Stack, Dynatrace, Kafka, Temporal, Jest, OpenCV
Others: Microservices Architecture, Cloud Computing, DevOps, Machine Learning, IoT

PUBLICATION

Pay-by-Palm: A Contactless Payment System

10.1007/978-981-99-9521-9_25)

Published in Springer Proceedings (DOI:

Engineered a secure payment system integrating palmprint recognition with e-wallets, addressing accuracy, reliability, and privacy challenges to deliver enhanced user experience and fraud-resistant transactions.

PROJECTS

Archivo - Student File Management System *Django (Python), SQLite*

<https://github.com/pravin-pk/Archivo>

A full-stack web application using Django (Python) with SQLite database to streamline management of student academic records and documents. Implemented secure user authentication, file upload/download functionality, document organization, and role-based administrative controls for students, faculty, and admins.

TIARA 2023 *Django, React, Google Cloud Platform, REST APIs, NoSQL, RazorPay*

<https://github.com/pravin-pk/Tiara-2023>

Led a cross-functional team of 5 developers to build a full-stack web application, incorporating event listings, e-ticket booking with integrated payments, and automated email notifications, serving 1,000+ users and generating 500+ transactions during the event.