ABHISHEK KUMAR GUPTA

Senior Software Engineer

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SKILLS

Programming & Scripting

Python   JavaScript   TypeScript

Shell

Backend & APIs

Django   Flask   FastAPI

Pydantic   REST APIs   Node.js

Express.js

Frontend Development

HTML   CSS   Bootstrap

JavaScript   TypeScript   React

Redux   Context API   jQuery

Databases

MySQL   PostgreSQL   Cassandra

Redis

DevOps & Cloud:

Docker   Kubernetes   Jenkins

AWS   Azure   GIT   JIRA

KEY ACHIEVEMENTS

☆ **Rising Star Award**
Awarded for designing and implementing a system degradation monitoring tool using full-stack technologies to analyze performance metrics and provide actionable insights.

☆ **QCM Award**
Recognized for building a full-stack automation solution that reduced dependency on customer-provided test cases by 30%, increasing product validation efficiency.

EDUCATION

B.E in Information Technology

Jadavpur University

📅 08/2015 - 05/2019   📍 Kolkata

PROFESSIONAL SUMMARY

- Full Stack Developer with 6+ years of experience building scalable web applications using modern front-end and back-end technologies.
- Specialized in React for interactive UIs and backend development using Python frameworks (Django, Flask, FastAPI) and Node.js with Express.js.
- Strong expertise in designing RESTful APIs, database management, and deploying microservices.
- Proficient in working with Cassandra, Redis, MySQL and PostgreSQL with solid experience in database design, caching strategies, and distributed systems.
- 6+ years of experience in Data Structures and Algorithms.
- Adept in containerization (Docker, Kubernetes), cloud infrastructure (AWS, Azure), and CI/CD automation (Jenkins, Azure pipelines).
- Experienced in Agile methodologies, with hands-on expertise in Scrum and SAFe to deliver iterative, high-quality software solutions in collaborative environments.
- Skilled in Git for code reviews, PR feedback, and ensuring code quality.
- Expertise in data pipeline automation and generating PowerBI reports for actionable insights.
- Proficient in debugging complex systems, focusing on root cause analysis and performance tuning.
- Strong problem-solving, collaboration, and communication skills, consistently delivering scalable software.

EXPERIENCE

Senior Software Engineer

EPAM Systems   📅 05/2025 - Present   📍 Bangalore

- Designed and developed a unified data visualization layer within a semantic data platform by embedding and customizing Apache Superset into the organization's internal portal.
- Implemented SSO-based authentication and authorization (via JWT/OAuth2) to enable seamless, secure user access across multiple applications.
- Customized Superset's frontend (React.js) and backend (Flask) for iframe integration, ensuring consistent UI, session handling, and cross-domain communication.
- Built role-based access control (RBAC) and permission mapping to align Superset roles with organizational user groups and access policies.
- Enhanced user experience by making Superset appear as a native part of the portal, eliminating the need for a separate analytics tool.
- Managed CI/CD pipelines and integrated security scans (Mend, SonarQube) to automate vulnerability detection and improve release reliability.

R&D Staff Engineer

Synopsys   📅 06/2019 - 12/2024   📍 Bangalore

- Led the development of full-stack applications using React on the frontend and Django, Flask, and Node.js/Express.js on the backend to support internal diagnostic and monitoring tools.
- Designed and implemented REST APIs for crash data collection and analysis using Flask, Express.js, and Cassandra as the storage backend.
- Integrated Redis for caching frequently accessed metrics, improving response times in real-time monitoring dashboards.
- Automated the packaging and deployment of tools using Docker and orchestrated them with Kubernetes, streamlining installation across customer environments.
- Built dynamic web dashboards in React and Bootstrap for visualizing system performance and crash reports.
- Enhanced test case packaging processes using multicore compression and regex-based file handling, and integrated the workflow with Node.js microservices for fast delivery.
- Developed and deployed a crash analysis tool using ML techniques for pattern recognition, integrated with a React UI for user-friendly access.
- Developed system degradation and monitoring tool using Netdata and low-level system functions to analyze product performance, delivering actionable insights for functionality improvements.
- Built and automated data pipelines for team-wide tools, scripting log extraction, generating PowerBI reports, and automating workflows using Jenkins for actionable insights.

Software Development Engineer Intern

Amazon   📅 05/2018 - 07/2018   📍 Hyderabad

- Designed and developed a self-service tool from scratch using serverless architecture to streamline the creation of test accounts.
- Built multiple RESTful APIs using AWS Lambda, integrated with internal systems to support test account provisioning in bulk.