

AKSHAY PANDEY

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PROFESSIONAL SUMMARY

Innovative Software Engineer with expertise in designing scalable full-stack applications, optimizing data pipelines, and building cloud-native solutions. Proven track record of delivering high-impact, maintainable systems leveraging technologies to drive business success.

PROFESSIONAL EXPERIENCE

Teksolve IT Solutions

Senior Full Stack Engineer

Remote

February 2023 - June 2025

- Designed microservices using Django and REST APIs, deployed via Docker with MongoDB integration, improving system scalability and reducing CPU usage by ~28%.
- Developed modular UI components in React and Vue, simplifying front-end codebase and cutting refactoring time by ~20%.
- Integrated ProPay and TRX APIs to support multi-platform payment processing, reducing transaction failure rate by nearly 15%.
- Enhanced payment reporting using custom SQL queries and dashboards, enabling insights that supported a 12% lift in conversion.
- Automated PostgreSQL-to-BigQuery data workflows using Airflow, reducing pipeline failures by about 30%.
- Built CI/CD pipelines via GitHub Actions, shortening deployment cycles from hours to under 30 minutes per microservice.
- Built Spark-based batch jobs integrated with Kafka and Hadoop, increasing pipeline throughput by ~22% during peak loads.
- Conducted technical spike sessions for new payment processors, improving story clarity and reducing lead time from planning to deployment by ~20%.
- Enabled zero-downtime deployments via GitHub Actions CI/CD pipeline, improving release confidence and reducing rollback risk.
- Documented architecture, deployment workflows, and troubleshooting guides, improving cross-team knowledge sharing and reducing handoff friction.

Quantitative and Qualitative Data Analysis Lab

Graduate Assistant

Buffalo, NY, USA

January 2022 - May 2022

- Automated data cleaning and visualization for research using Python, cutting manual effort by ~35%.
- Optimized regression and classification models in R, SPSS, and Python, improving accuracy by around 9%.
- Conducted chi-square and t-tests to validate research findings, strengthening model reliability and decision confidence.

NSEIT LIMITED

Associate Systems Analyst

Mumbai, Maharashtra, India

July 2019 - July 2021

- Designed scalable REST APIs using Spring Boot, reducing API latency by ~22% and improving system throughput.
- Optimized backend queries via Spring Data JPA, decreasing response times for heavy queries by ~25%.
- Deployed Spring Boot microservices on Kubernetes, improving scalability and reducing manual server provisioning.
- Built Java-based data processing modules to handle high-volume transactional data, reducing response errors and boosting processing efficiency.
- Integrated third-party services via REST APIs, streamlining external data access and reducing integration time by ~20%.
- Established Git branching workflows, enhancing team collaboration and reducing merge conflicts in cross-functional sprints.
- Developed internal documentation and templates for setting up new microservices, reducing onboarding setup time by over 50%.

EDUCATION

University at Buffalo - SUNY

Master's, Data Science

August 2021 - February 2023

University of Mumbai

Bachelor's, Computer Engineering

July 2015 - May 2019

SKILLS

Skills: Node.js, AngularJS, Apache Hive, Apache Spark, AWS, BigQuery, Apache Kafka, Django, Docker, Elasticsearch, Flask, GraphQL, Hadoop, JavaScript, Jenkins, jQuery, C/C++, Git, HTML/CSS, Java, Airflow, Linux/Unix, Microsoft Azure, R, MongoDB, MySQL, React.js, REST APIs, Kubernetes, Python, gRPC, NoSQL, Power BI, TypeScript, Vue.js, Google Cloud Platform, FastAPI