

KAUSHIL NAGRALE

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SUMMARY

Software Developer (3+ years) specializing in backend and distributed systems—designing scalable services, crafting clean APIs, and deploying resilient cloud infrastructure. Comfortable across Python/Java, microservices, containers, and CI/CD. Applied ML experience building computer-vision pipelines. Expert in latency, reliability, and developer ergonomics.

EDUCATION

Masters in Data Science, Analytics and Engineering, Arizona State University
GPA: 4.00 / 4

Tempe, USA
Aug 2024 – May 2026

Courses: Cloud Computing, Data Visualization, Data Processing at Scale

Bachelors in Mechanical, RV College of Engineering

GPA: 3.51 / 4

Bangalore, India
Aug 2017 – May 2021

Relevant Courses: Introduction to Internet of things, Introduction to C programming.
Achieved 1st place in Quadrathlon Design Event (Man with a plan- 2021)

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, SQL, C/C++, Shell

Backend & Distributed Systems: Django, Flask, FastAPI, Node.js, Microservices, REST, GraphQL, OAuth/JWT, API Gateways

Cloud & DevOps: AWS (EC2, S3, Lambda), GCP, Azure, Docker, Kubernetes, Jenkins, CI/CD • Microsoft Certified: Azure Fundamentals

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Neo4j

Web: React, Redux, D3.js, Tailwind CSS

Concepts: Systems design, data structures & algorithms, caching, event-driven architectures, fault tolerance

EXPERIENCE

Cognizant Technology Solutions India (Software Developer)

Oct 2021 – Jan 2024

- Scaled microservices in Python (Django/Flask) and Node.js, cutting p95 latency ~40% through query tuning, caching, and async I/O.
- Built and hardened REST/GraphQL APIs, improving data-access throughput ~30%; added rate-limits and auth (OAuth2/JWT).
- Deployed services on AWS (EC2/Lambda/S3) with Docker + Kubernetes; right-sizing and autoscaling trimmed infra cost ~25%.
- Implemented CI/CD (Jenkins, containerized builds) reducing release lead time ~50%; added smoke & contract tests.
- Partnered with frontend to ship user-visible improvements, aligning API contracts and improving perceived load time.

PROJECTS

Cloud-Based Task Management System | Python, Flask, AWS Lambda, MongoDB

Developed a serverless task management application deployed on AWS, handling real-time task tracking. Implemented push notifications and automated reminders using AWS SNS and Firebase.

Vehicle parking monitoring System | Python, OpenCV, TensorFlow, FastAPI, Azure

Implemented vehicle counting and license plate detection using Python, OpenCV, Tesseract OCR, Flask, Azure Data Factory, Synapse, FastAPI, Docker, and Neo4j with 68% accuracy, trained on datasets BDD100K and Cityscape, and Deployed APIs using FastAPI and Flask, ensuring scalability and low latency.

E-commerce Platform | JavaScript, Django React, PostgreSQL, Docker, Kubernetes, Jenkins, GraphQL, Stripe API

Developed a full-stack e-commerce platform with Django and React, supporting 100+ products, 500+ transactions, and 10+ RESTful APIs, integrating secure authentication, Stripe payments, PostgreSQL, and Dockerized deployment with CI/CD, cutting down deployment time by 50%.

Social Media Analytics Dashboard | JavaScript, Flask, MongoDB, D3.js, React, Docker, CI/CD

Constructed a social media analytics dashboard with Flask, MongoDB, D3.js and React, aggregating data from 3+ platforms, processing 10,000+ data points/ min, and providing real-time insights for 50,000+ interactions with 5+ interactive visualizations.