

Dixit Nandaniya

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Professional Summary

Software Engineer with 2+ years of experience building scalable backend systems, cloud-native applications, and data-driven platforms. Proven expertise in designing high-performance APIs, distributed systems, and real-time processing pipelines using Python and modern web technologies. Experienced in AWS cloud services, microservices architecture, and full-stack development. Strong focus on writing clean, maintainable code and delivering solutions that improve system performance, scalability, and reliability.

Skills

Programming: Python, JavaScript, TypeScript, SQL, Java, C, HTML, CSS
Backend & Frontend: REST APIs, Microservices, Distributed Systems, Asynchronous Processing, API Design, Node.js, React.js
Databases: PostgreSQL, MongoDB, MySQL, DynamoDB, Database Design
Cloud: AWS (EC2, S3, Lambda, CloudWatch, SQS, EventBridge, Auto Scaling)
DevOps: Docker, Kubernetes, CI/CD, Git, GitHub Actions
Architecture: System Design, Event-Driven Architecture, Scalable Systems, High Availability
Testing: Unit Testing, Integration Testing, End-to-End Testing
Tools: Git, GitHub, Linux, Postman, Jira, Visual Studio, PyCharm

Experience

Software Engineer Coretus Technologies	May 2022 – Apr 2023
<ul style="list-style-type: none">Built and optimized backend services used by thousands of users, improving execution time by 60% for critical workflows.Designed scalable system architectures improving maintainability and system performance using OOP principles, modular design, and clean coding practices.Developed and maintained REST APIs and asynchronous processing pipelines for real-time applications.Collaborated cross-functionally with product and engineering teams to deliver high-quality features in agile environments.Improved system reliability and performance through debugging, testing, and optimization.	
Software Engineer Intern Coretus Technologies	Jan 2022 – Apr 2022
<ul style="list-style-type: none">Developed full-stack features for a real-time trading platform using Python, MySQL, and REST APIs.Implemented automated testing and validation layers, reducing bugs and improving maintainability.Built and optimized data-processing workflows using AWS, improving operational efficiency by 40%.Contributed to system design discussions and refactoring for scalable architecture.	
Software Engineer Striker Apps	Jan 2021 – Dec 2021
<ul style="list-style-type: none">Designed and optimized serverless microservices on AWS, reducing infrastructure costs by 30%.Built event-driven systems using SQS and EventBridge, improving processing speed by 40%.Automated CI/CD pipelines using GitHub Actions, reducing deployment time by 50%.Conducted performance and integration testing to ensure 99.9% system uptime.	

Projects

ReSecure (Flutter, Firebase)
<ul style="list-style-type: none">Built a real-time mobile surveillance system converting smartphones into distributed security cameras with live streaming and motion alerts.Implemented multi-user access and push notifications using Firebase, improving usability and responsiveness.
ML K.I.D.A. – Automated Mite Detection (Django, YOLOv8, Deep SORT)
<ul style="list-style-type: none">Developed an ML-powered detection and tracking system achieving 90%+ accuracy, reducing manual inspections by 50%.Built backend APIs and real-time processing pipeline for live agricultural monitoring and alert generation.

Education

Master of Applied Computer Science University of Windsor	May 2023 – Aug 2024 Windsor, ON, Canada
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Certifications

AWS CCP (Udemy) | Agile Software Development: Clean Coding Practices (LinkedIn Learning) | Data Science Bootcamp (Udemy) | SQL Associate (DataCamp) | Data Engineer (DataCamp) | Understanding Prompt Engineering (DataCamp)