

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

May 2022 – Apr 2023

Coretus Technologies

- 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

Jan 2022 – Apr 2022

Coretus Technologies

- 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

Jan 2021 – Dec 2021

Striker Apps

- 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)

- 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)

- 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

May 2023 – Aug 2024

University of Windsor

Windsor, ON, Canada

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)