

Dhruv Shah

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EDUCATION

Masters in Computer Engineering, California State University Fullerton, California | USA **January 2025 - January 2027**

Coursework: Modern Software Management, Advanced Cyber Systems, Software Design Architecture, Arithmetic Structures

Bachelor of Technology in Electronics and Communication Engineering, GTU | India **October 2020 - May 2024**

SKILLS

Programming Skills: Python, SQL, Java, JavaScript, C#

Databases/Technologies: PostgreSQL, MySQL, MongoDB, Redis, Apache Spark, Hadoop

Concepts: Distributed Systems, Software Architecture, Data Pipelines, Automation

Frameworks and Tools: Spring AI, Spring Boot, JSON, Docker

EXPERIENCE

Software Engineer-California State Fullerton (Audio Visual Department) | Fullerton, USA **August 2025 - Present**

- Developed automation tools and diagnostic scripts to monitor, troubleshoot, and resolve AV, network, and workstation system issues, reducing manual debugging effort and contributing to a **25%** increase in system uptime.
- Built internal service workflows for **50+** networked hardware and software systems, improving reliability, incident response, and cross-department integration across campus infrastructure.
- Created support documentation for recurring AV, classroom, and network issues while automating routine diagnostics to speed up ticket resolution and improve service reliability.

Software Engineering Intern - Larsen & Toubro (Heavy Engineering) | Surat, India **January 2024 - April 2024**

- Built scalable backend services using Python, Azure, and Databricks to process and synchronize inputs from 5+ enterprise systems, improving service throughput by 35% and ensuring reliable cross-system consistency.
- Engineered and deployed **10+** interactive analytics dashboards by orchestrating REST API and cloud data pipelines, enhancing KPI visibility and enabling executives to make decisions **30%** faster.
- Automated data cataloging and validation workflows by developing **Python**-based ETL scripts to parse and verify **300+** Excel datasets, reducing manual reporting effort by **40%** and standardizing output across teams.

Software Engineering Intern - Aditya Birla Group (Hindalco Industries) | Dahej, India **July 2023 - August 2023**

- Designed and developed **Python**-based data processing modules to ingest, clean, and analyze **10,000+** operational data points simulating solar and steel plant systems, improving reliability of performance tracking workflows.
- Built **8+** interactive analytics dashboards using Pandas and Matplotlib to monitor **5+** critical process parameters, helping engineering and operations teams track system performance in real time.
- Built **AWS**-based analytics workflows using S3, Glue, and QuickSight to process industrial operations data and deliver dashboard-ready insights for engineering teams.

PROJECTS

Cipher Keep - Secure Secret Management System | Java, Spring Boot, MySQL/PostgreSQL, JWT, Spring Security **April 2025**

- Developed a secure AI-powered secret manager with strong encryption, versioning up to 10 versions, automated re-encryption, and key rotation, using Spring AI to summarize audit logs and surface security insights.
- Implemented **RBAC** using JWT, Spring Security, and REST APIs with fine-grained permissions for Admins, Owners, and Users, strengthening zero-trust security, access governance, authentication, authorization, and compliance.
- Built scalable cloud-native **REST APIs** with CRUD, pagination, rollback, encrypted audit trails, metadata search, and AI-assisted natural-language querying for unusual access patterns.

DocuMind | Java, Spring Boot, REST APIs [Link](#) **June 2026**

- Built and deployed a live **RAG**-based PDF Q&A platform using Spring Boot, React, PostgreSQL, PGvector, Docker, and Render, enabling users to upload documents and receive source-grounded answers in seconds.
- Implemented JWT authentication, PDF ingestion, text chunking, and retrieval pipelines, reducing document search from manual reading to instant semantic and keyword-based lookup.
- Designed the system with an **AWS**-ready architecture for future migration to EC2, RDS, and S3, while debugging backend, database, CORS, and deployment issues end to end in production-like hosting.

CERTIFICATIONS

- Spring 6 & Spring Boot 3: AI, Security, Docker, Cloud, AWS