

Jaydeep Ganatra

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Summary — Experienced Software Developer adept in bringing forth expertise in design, development, testing, and maintenance of software systems in the fin-tech and the ML industry. Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team.

Skills

Languages Python, JS, Elixir	Databases PostgreSQL, MongoDB, MSSQL, Oracle Cloud,
Frameworks Flask, FastAPI, Phoenix, PyTorch, RAG, CUDA	Milvus
Automation Azure Pipelines, Github Actions, Ansible, Jenkins, UiPath	Testing Pytest, Unittest, Nose2
Cloud AWS, Azure Cloud	

Experience

Thinkbridge Software

August 2021 – Present

Senior Software Engineer

- **Client Projects:** Led full-stack development for AI and fintech SaaS products, delivering scalable backend systems and data pipelines.
- Engineered a conversational AI pathway system for recruiting software, enabling AI-driven voice agent interviews. **Reduced manual recruiter effort by 40%** and shifted the interview model from 100% human-led to 80% AI-assisted.
- Architected and developed a centralized backend framework for the Data and Automation Practice to calculate employee performance scores and track growth, standardizing reviews across the company.
- Spearheaded back-end feature development for a fintech prepaid-card platform (Karmic); led a team of 2 engineers through the entire SDLC, from planning to deployment.
- Designed and implemented an ETL pipeline to migrate the entire database from Redshift to ClickHouse, improving OLAP query performance for analytics and visualization by 5x.
- Participated in disaster recovery planning and drills to ensure business continuity.
- **Products - Harmony Engine:** Developed a dense retrieval engine for legacy codebases (Pascal, COBOL) to modernize enterprise workflows.
- Fine-tuned embedding models specifically for legacy programming languages (Pascal, COBOL) to improve code search and analysis accuracy.
- Enhanced semantic search capabilities by augmenting results with Abstract Syntax Tree (AST) analysis, providing concrete syntactic relationships between code snippets.

HDFC Bank

June 2019 – August 2021

Deputy Manager - Software Engineering Center of Excellence

- Drove software engineering initiatives in a banking environment, focusing on payment systems, CI/CD automation, and performance engineering.
- Designed and implemented an end-to-end payment portal and tracker for vendor payments using Python, Flask, and MySQL, deployed on on-premises RHEL servers.
- Integrated SVN and Ansible into the CI/CD pipeline to automate builds and deployments for all Software Engineering Center of Excellence (SeCOE) code repositories, reducing deployment time by 30%.
- Served as the Single Point of Contact (SPOC) for performance engineering, utilizing JMeter for load testing and profiling to ensure optimal system performance and stability.
- Led the development of three end-to-end automation solutions using Robotic Process Automation (UiPath) for comprehensive User Acceptance Testing (UAT), deployed bank-wide.
- Served as the liaison for all Robotic Process Automation (RPA) activities under the SeCOE purview.

Education

NMIMS - Mumbai

Bachelor of Engineering in Computer Science

Minors: Networking ; Compiler Design

Publications

Emerging Network Virtualization Frameworks