

Contact

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Core Skills

GenAI & Agentic Systems (LangChain, LLM 's, MCP)
• Enterprise Framework Engineering • Python & Data Pipelines • Java EE, Spring, Angular, ReactJS • PCF/Tanzu, GCP Vertex AI Workbench • SQL, Kafka, MongoDB, Google BigQuery • CI/CD • Workflow Automation • Diagnostic Tooling

Education

MS, Business Analytics' 2021
The University of Iowa

MS, Computer Science' 2005
Maharishi University, Iowa

MS, Computer Mgmt.' 1997
University of Pune, India

Certifications

Scrimba AI Engineering
Business Analytics Certificate
Pivotal Acceleration Lab
MongoDB for Java Developers
Scala Programming Principles

Awards

Wells Gold Coin Award' 2019
Team Excellence Award' 2020
Wells Hackathon' 2019 – 1st
Wells Hackathon' 2021 – 2nd

Other Experience

Backend and Frontend Apps
Framework Libraries
PCF & GCP Cloud Migrations
Workflow Development
Data Processing Apps
Streamlining Tasks with AI

Jerry Jacob

Wells Fargo Bank, Des Moines, IA

Summary

I'm a quantitative and software engineering professional with hands-on experience in GenAI-driven automation, building scalable forecasting pipelines, and shaping the datasets that power enterprise analytics. I work comfortably across Python, Java, SQL, and the Hadoop ecosystem, and I'm known for strong debugging instincts, clear documentation, and a disciplined approach to data quality. I enjoy creating clean, reliable engineering solutions and collaborating with business partners, engineers, and data scientists in fast-moving, highly dynamic environments.

Technical Experience

Quantitative Solutions Specialist (Strategy), Wells Fargo (2022 –)

- Built scalable backend and data engineering orchestration pipeline supporting enterprise analytics and model production operations (Patent Pending)
- Designed reusable ETL frameworks and automated ingestion, transformation, and validation processes that improved data quality and operational reliability.
- Designed and delivered a ReactJS-based transaction application hosted entirely on GitHub Pages, enabling fully serverless user transactions and eliminating the need for a traditional application server.
- Developed diagnostic controls, monitoring scripts, and metadata governance assets to strengthen transparency and compliance.
- Modernized legacy systems and delivered platform-aligned engineering solutions supporting Google cloud-native modernization.
- Built POCs using LLMs, LangChain, and MCP servers to demonstrate GenAI-enabled automation and reusable intelligent components.
- Created a VS Code-based agentic tool that generates Python test files using a custom rulebook, showcasing practical GenAI augmentation of developer workflows.

Lead Software Engineer (Framework), Wells Fargo (2013 – 2022)

- Engineered enterprise frameworks and reusable components used across thousands of applications, enabling standardized development and automation patterns.
- Built backend and frontend systems using Java EE, Spring, Angular, and ReactJS, integrating with SQL, Oracle, MongoDB, and Kafka.
- Modernized CI/CD pipelines with uDeploy and Jenkins, improving deployment reliability and reducing cycle times.
- Led code reviews, mentored engineers, and guided teams through complex technical challenges and platform adoption.
- Authored user guides, conducted open office hours, and supported enterprise-wide adoption of new tools and engineering standards.
- Played a key role in migrating legacy Java applications to PCF cloud environments.
- Proposed and implemented a POC conversational bot to answer framework questions, demonstrating early application of AI to developer support.

IT Specialist – State of Iowa (2009 - 2013)

IT Consultant – Praxis Technology (2002 - 2009)