

## 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 – 1<sup>st</sup>  
Wells Hackathon' 2021 – 2<sup>nd</sup>

## 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 playbook, 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)