

ALBERTO NIETO

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PROFESSIONAL SUMMARY

Strategic and hands-on technology leader with 25+ years in financial services, specializing in AI-driven automation, cloud-native solutions, and enterprise-scale data engineering. Career spans from banking operations to Principal Engineer — building deep domain expertise at every level. Expert in Agentic AI frameworks, GCP infrastructure, and scalable automation pipelines. Open source contributor with published Python libraries on PyPI. Co-inventor on patent application. Bilingual in English and Spanish.

AREAS OF EXPERTISE

Generative AI & Agents • Python • Cloud Engineering (GCP, PCF) • Data Engineering & Pipelines
OCR & Document Intelligence • Video Inference • CI/CD & DevOps • Enterprise Architecture

OPEN SOURCE

adk-secure-sessions: Encrypted session storage for Google ADK agents. Drop-in replacement using Fernet encryption with PBKDF2 key derivation.

docvet: CLI tool for Python docstring quality vetting. 19 rules across completeness, accuracy, rendering, and visibility.

gepa-adk: Evolutionary prompt optimization for AI agents using Google ADK. Automatically evolves agent instructions through iterative improvement.

RECOGNITION

- January 2026 — Named as co-inventor on patent application
- Top Performer 2018 (New Orleans) — Recognition for vulnerability remediation efforts
- Top Performer 2014 (Nashville) — Recognition for asset reporting initiatives

PROFESSIONAL EXPERIENCE

Principal Engineer (Executive Director)

Jun 2025 – Present

Wells Fargo, Phoenix, Arizona

Leader in implementing cutting-edge AI solutions for business needs, presented to CTO weekly. Creating documentation and frameworks to accelerate developer onboarding and production rollouts.

- Created AI agent framework to automate line-of-business operations, adopted across multiple teams
- Built video processing pipeline handling thousands of videos daily into standard operating procedures for knowledge tree persistence
- Implemented evaluation and evolution frameworks to score and evolve agent definitions for data pipeline tasks (open-sourced as gepa-adk)
- Established patterns ensuring non-functional requirements are satisfied with AI deployments
- Audited enterprise API clients for Apigee AI provisioning to enable multi-modal capabilities and proper scaling

Senior Lead Analytics Consultant (Executive Director)

Jun 2022 – Jun 2025

Wells Fargo, Phoenix, Arizona

Individual contributor and team's resident expert in GenAI and Agentic AI frameworks. Focused on proof of concepts and production-ready AI implementations.

- Architected scalable OCR pipeline processing 500K+ documents using Gemini, with results stored in Teradata and SQLite for distributed processing
- Developed intelligent agents for database querying, KPI summarization, SQL validation, and structured QA using Python and Google ADK
- Built reusable data pipelines for document ingestion, OCR, and validation using Selenium, HTTPX, and Docling with Gradio/Streamlit frontends
- Designed modular, scalable architecture patterns reused across multiple teams and projects
- Implemented git-based dev workflow with peer reviews, pull requests, and release standards to mature end-user compute tool development

Lead Analytics Consultant (AVP)

Jan 2018 – Jun 2022

Wells Fargo, Phoenix, Arizona

T-shaped role providing leadership, oversight, and direct development in ETL, visualization, and advanced analytics workstreams.

- Onboarded applications to Pivotal Cloud Foundry with Splunk logging and Blackduck security scans
- Built web scrape automation for business intelligence visualization previews and validation
- Created dynamic databases for manual and automated data ingestion from flat-file data providers
- Engaged technology peer groups to execute high-priority regulatory data analytics

Applications Systems Engineer (AVP)

Nov 2016 – Jan 2018

Wells Fargo, Phoenix, Arizona

Team lead for vulnerability business intelligence development team.

- Provided guidance to development team and business partners on BI solutions for emergency remediation and reporting
- Consulted leadership on data architecture roadmap for vulnerability remediation
- Created ad-hoc SQL reports across systems of record to illustrate compliance status

Business Systems Consultant (AVP)

Oct 2009 – Nov 2016

Wells Fargo, Phoenix, Arizona

Created business intelligence reporting and tools for regulatory compliance and leadership decision-making.

- Built and supported ongoing asset validation processes
- Created compliance metrics for server footprint tracking
- Developed business process reports for server implementation, changes, and decommission time-to-market

Technology Manager

2006 – 2009

Wells Fargo, Phoenix, Arizona

Led team of technical professionals supporting end-user technology across four administrative sites.

- Led 8-9 technicians across four administrative sites
- Led desktop OS migrations and provided onsite hardware swap support
- Expedited Business Continuity Plan documentation to 100% compliance for disaster recovery across four business lines
- Led monthly compliance efforts for security patching, encryption, and asset tracking

Team Lead / Leadership Development Program / Operations

1999 – 2006

Wells Fargo / Bank of America, Phoenix, Arizona

Progressive career from teller to operations analyst to leadership development program, building deep financial services domain expertise.

- Selected for Wells Fargo Leadership Development Program (2004-2005), rotating through operations and technology departments
- Presented SharePoint hosting solution to technology executive leadership
- Led six technicians at two admin sites with desktop end-user support
- Progressed through teller, personal banker, lead teller, operations processor, and operations analyst roles (1999-2004)

EDUCATION

Bachelor of Science, Accounting

DeVry University, Phoenix, Arizona