

# Zahraa Alshalal

## OBJECTIVE

Analytic Data & Cloud Engineer with experience designing and deploying scalable ETL/ELT pipelines in cloud environments using Python and SQL. Proven ability to automate high-volume data ingestion, improve data integrity across distributed systems, and support analytics workflows in enterprise environments. Strong background in Google Cloud, API integrations, and backend automation, with domain experience in regulated healthcare systems.

## WORK EXPERIENCE

### Integration and Automation Engineer - The CBR Group, Martinez, CA

February 2024 - December 2025

- **Developed and deployed Python scripts to Google Cloud Functions**, automating large-scale data imports from T-Mobile and Verizon portals into internal platforms, ensuring secure, accurate, and timely processing of critical business data.
- **Built and maintained backend systems** by implementing and optimizing RESTful API integrations between enterprise platforms and cloud services, improving system connectivity and reducing process gaps.
- Applied **SQL queries and database software proficiency** to validate imported data, generate reports, and maintain data integrity across systems.
- **Designed and customized QuickBase applications** with a focus on responsive design and scalability, enhancing efficiency and cross-departmental collaboration.
- Conducted **software testing, debugging, and refactoring** of legacy code (e.g., financial workflows such as purchase order line management), significantly improving reliability and minimizing recurring errors.
- Collaborated with cross-functional teams to **troubleshoot and maintain full-stack applications**, reducing downtime and accelerating resolution of technical issues.
- Incorporated **GIS technologies** into workflows to support **AI/ML-based spatial analysis**, strengthening location-driven decision-making and reporting.
- Began exploring **Generative AI applications and machine learning frameworks** to enhance automation and predictive workflow capabilities.

### Pharmacy Technician — CVS Pharmacy: Berkeley/San Francisco, CA

Jan 2018 - April 2024

- Fill prescription orders, manage inventory, and resolve insurance issues.
- Communicate with patients and physicians.

### Store Associate / Pharmacy Clerk — CVS Pharmacy: Oakland, CA

Jun 2016 - Jan 2018

- Assisted customers with prescriptions, refills, and inquiries while supporting pharmacists with patient information, medication organization, and record accuracy.
- Processed sales, insurance claims, and billing issues at the register.

## EDUCATION

### San Francisco State University, San Francisco — Bachelor of Science in Applied Mathematics

Aug 2016 - May 2023

Coursework:

- Statistical Learning and Data Mining, Categorical Data Analysis, Computational Linear Algebra

## CERTIFICATIONS

### UC Berkeley Extension, Berkeley, CA — Web Developer Bootcamp

Jun 2020 - Dec 2020

- Full-stack Software Development

## Technical Skill

- **Programming & Data:** Python, SQL, R, JavaScript (React, Node.js), HTML, CSS
- **Web Frameworks:** React, Node.js, Flask, Django
- **AI & ML:** Machine learning frameworks (scikit-learn, TensorFlow, PyTorch), Generative AI, AI applications, **Prompt Engineering**
- **System Design & Scalability:** System design, system architecture design, scalable systems, scalability, performance tuning
- **Development & Cloud:** Full-stack development, backend systems, RESTful APIs, database proficiency, Google Cloud Functions, QuickBase customization
- **Software Practices:** Software testing, debugging, responsive design, version control (Git)
- **Other Tools:** GIS technologies, automation scripting, optimization & simulation

Oakland, CA 94606  
(510) 365-2689  
alshalalzahraa@gmail.com

## LANGUAGES

Arabic (Native), English

[GitHub](#)

[Portfolio](#)

[LinkedIn](#)