Miguel Quebrado

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Summary

Software Engineer with a Master's in Computer Science and 9+ years of experience building enterprise applications, distributed data platforms, ETL pipelines, and cloud-based analytics solutions. Experienced across full stack development, backend services, data engineering, and business intelligence, with expertise in React, Next.js, TypeScript, Node.js, PostgreSQL, Python, Azure Databricks, and Spark SQL. Proven track record modernizing legacy systems, optimizing large-scale data workflows, and delivering production-grade platforms from architecture through deployment and operations.

Education

M.S. COMPUTER SCIENCE BOISE STATE UNIVERSITY FALL 2021 GPA 3.57
B.S. ELECTRICAL ENGINEERING BOISE STATE UNIVERSITY MAY 2015GPA 3.36

LANGUAGES

- JavaScript, TypeScript, Python, SQL, Java, C#, C,

FrontEnd

- React.js, Next.js, Tailwind CSS, ExtJS, Bootstrap

BackEnd

- Node.js, Express.js, REST APIs, JWT Authentication

Testing & Quality

- Jest, Playwright, Postman

DevOps & Deployment

- **Containerization & Orchestration:** Docker, Docker Compose - **Deployment Platforms:** Render (production hosting) – Azure, GCP, AWS
- **Version Control:** Git (GitHub, GitLab, Bitbucket) - **API Testing & Debugging:** Postman, Chrome DevTools, browser Network/Headers

Data & Databases

- PostgreSQL, MySQL, Snowflake, SAP HANA, ETL Development, Data Modeling

Data Engineering & Cloud

Azure, Azure Databricks, Spark SQL, Distributed Data Processing, Cloud ETL, Tableau (Desktop & Server), ETL Pipelines

Full-Stack Authentication & User Management App: Frontend Repo | Backend Repo

- Architected and implemented a containerized full stack application using React, Node.js, Express, and PostgreSQL.
- Designed secure JWT based authentication with role based access control (admin/ manager / user).
- Implemented password hashing, environment based configuration management, and API validation.
- Orchestrated multi service environment using Docker Compose for frontend, backend, and database.
- Integrated automated testing using Jest and Playwright.
- Structured project following scalable MVC and modular backend architecture principles.

Software Engineer | CapEd Credit Union | June 2023 – May 2026

- Designed and implemented distributed data processing pipelines using Azure Databricks (Spark SQL) to support downstream analytics and operational systems.
- Architected migration of legacy SQL Server extract workflows to cloud based Databricks clusters, enabling parallel compute execution and significantly improving scalability.
- Reduced load on transactional databases by offloading compute intensive transformations to distributed Spark clusters.
- Leveraged Azure cloud storage as centralized data lake layer for intermediate and production ready datasets.
- Optimized large scale SQL transformations for performance and reliability in distributed environments.
- Collaborated cross functionally to modernize data workflows and improve downstream reporting efficiency.

Application Development Engineer | Micron Technology | May 2016 – Feb 2023

- Developed scalable Python ETL pipelines supporting enterprise reporting and analytics.
- Consolidated data from multiple operational systems and delivered Tableau dashboards for business stakeholders.
- Designed and maintained data warehouse solutions supporting business intelligence initiatives.

MASTER'S PROJECT | BOISE STATE UNIVERSITY| AUG 2017 – FALL 2021

- Developed a graph-based malware detection framework using control flow graphs extracted from Android APK binaries.
- Applied Inferential SIR-GN graph representation learning and XGBoost classification against the MALNET cybersecurity dataset.
- Improved malware classification performance by modeling structural malware evolution and temporal behavior patterns.
- Published research demonstrating expertise in graph neural networks, representation learning, predictive modeling, and reasoning over complex relationships, foundational concepts applicable to modern AI systems, knowledge graphs, agentic workflows, and intelligent automation platforms.