Jack Stehn

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with deep expertise building production systems at the intersection of data and software. I bring strong engineering practices—testing, modular design, and clean code—to full-stack applications, API integrations, and scalable cloud infrastructure. I have experience leading cross-functional technical initiatives in high-growth environments.

EXPERIENCE

Data Scientist (Lead: Data Systems, Platform Engineering) - Ed Pioneers Fellow   Sep 2024 — Oct 2025
Caliber Public Schools

- **Platform Architecture:** Architected and built a scalable data platform on GCP, orchestrating automated pipelines using Dagster, dbt, and dlt with comprehensive test coverage.
- **API Integration & Interoperability:** Solved complex system interoperability challenges by designing integrations between Schoolmint and PowerSchool. Reverse-engineered undocumented APIs to create a unified data model.
- **Engineering Maturity (ROI):** Built a custom automated data quality framework, reducing manual consistency checks from months of annual work to seconds.
- **Data Democratization:** Updated the organization's data security policy and designed training modules, empowering non-technical staff to access real-time metrics.

Data Scientist (Infrastructure, ML Systems)   Aug 2021 — Feb 2023
SetSail

- **Pipeline Architecture (AWS):** Led a critical overhaul of the AWS data infrastructure (S3, Athena, EMR). Implemented 'SQL Push-down' strategies and asynchronous DAGs, reducing data processing latency by 75% and scaling to multi-terabyte datasets.
- **Engineering Best Practices:** Championed the adoption of CI/CD pipelines (GitHub Actions), unit testing (pytest), and Agile methodologies within the data science team.
- **Scalable Data Modeling:** Architected scalable Star Schema data models and optimized ETL/ELT processes, ensuring data readiness for LLM integration.
- **Business Impact:** Contributed to product enhancements that achieved 33% faster ramp times, 16% higher revenue, and 15x ROI for customers.
- **Cross-Functional Leadership:** Collaborated with Engineering, Product, and Support teams to spec out large-scale infrastructure restructuring.
- **Technical Consulting:** Acted as a technical consultant for enterprise customers, diagnosing complex data discrepancies and proposing architectural solutions.

Full Stack Engineer   May 2019 — Aug 2019
Los Medanos College

- **Full Stack Development:** Independently designed and developed a web application (Python, JavaScript, PHP, PostgreSQL) to guide student program selection.
- **Data Acquisition:** Built a database of 500+ university programs via web scraping (Beautiful Soup) and rigorous data cleaning.
- **UX/UI:** Created an intuitive management dashboard for non-technical staff.
- **Stakeholder Consulting:** Consulted with college stakeholders (district, counselors) to define user needs.

EDUCATION

University of California, Berkeley   Aug 2019 — May 2021
Bachelor of Arts in Data Science (Domain Emphasis: Quantitative Social Science)

GPA: 4.00/4.00

Highest Distinction (Summa cum laude). Outstanding Data Science Undergraduate Award (Top of Class).