

SALVADOR BRAVO

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Software Engineer bridging infrastructure automation, applied AI, and full-stack product development

EDUCATION

University of California, Berkeley — B.S. Mechanical Engineering

May 2024

Relevant Coursework: Structure and Interpretation of Computer Programs (CS61A), Data Analysis, Product Development, Design Innovation, Optimization, Manufacturing

Technical Skills: Python, TypeScript/JavaScript, Angular, FastAPI, REST APIs, SQL, PostgreSQL/Supabase, Redis, Elasticsearch, Docker, GitHub Actions, GitLab CI/CD, Jenkins, Artifactory, MCP, Prompt Engineering

Recipient of UC Berkeley's Certificate in Design Innovation

PROJECTS

Engineering Operations Intelligence Platform

- Built and deployed an Angular, FastAPI, Redis, and Elasticsearch platform unifying operational context and health signals across 300+ daily builds.
- Mapped SRE handoff workflows into UI, backend, and validation logic, reducing shift handoff from hours to approximately 5 minutes.
- Iterated with engineering users after rollout, converting feedback and recurring incidents into reusable product improvements and documentation.

AI-Assisted Workflow Automation & MCP

- Developed MCP integrations and structured context patterns connecting AI-assisted workflows to engineering tools and operational data.
- Decomposed ambiguous requests into bounded tasks, acceptance criteria, and validation steps for reliable agent-assisted execution.
- Reviewed AI-generated code, requirements, tests, and documentation for correctness and alignment with engineering standards.

SoTravel — Full-Stack Consumer App (solo-built, shipped)

- Built and shipped a collaborative trip-planning app (Expo, Supabase, SQL) with Apple Sign-In, typed models, and deep links.
- Owned authentication, invitation, and join flows end-to-end, resolving SDK, routing, and data-contract issues after launch.

Release & Build Lifecycle Automation

- Automated iDRAC release-branch provisioning, reducing turnaround from 2 days to 3 hours.
- Built Jenkins and Artifactory retention logic with dry-run validation and audit logs, eliminating recurring storage incidents.

EXPERIENCE

Dell Technologies — Santa Clara, CA

May 2023 – Present

Software Engineer II

- Partner directly with SREs, developers, and technical leaders as internal customers, translating pain points into scoped requirements, rollout plans, and measurable outcomes.
- Build and review Python, TypeScript, Angular, and FastAPI solutions; validate quality through code review, monitoring, and release checks.
- Diagnose production failures, communicate tradeoffs to stakeholders, and document systems for independent team adoption.
- Coordinate engineering, SRE, product, and operations workstreams to resolve failures and meet release deadlines.

Space Technologies and Rocketry (STAR) — Berkeley, CA

Sept 2022 – May 2024

Recovery Lead

- Owned recovery-system deployments across three vehicles: CALDERA (two-stage, supersonic — led flight-profile analysis to define staging parameters), ALULA (liquid-engine rocket — developed an Instron failure-load test and a Y-harness architecture preventing airframe zippering), and MINDI (Mach 2, ~28,000-ft campus apogee record).
- Diagnosed a center-of-pressure instability at the MINDI launch site and proposed the corrective fix the 20-person team adopted on the spot, enabling a successful flight.
- Led design reviews and readiness presentations, translating technical risk into clear go/no-go decisions across structures, avionics, and propulsion teams.

Brita — Pleasanton, CA

June 2022 – Aug 2022

Research & Development Intern

- Ran 340+ controlled trials on filtration prototypes, converting product goals into experiments and evidence-based design changes; delivered a functional prototype within a 10-week cycle.

SKILLS & INTERESTS

Languages & Frameworks: Python, TypeScript/JavaScript, Angular, FastAPI, SQL, C/C++, MATLAB

AI & Automation: MCP, Prompt Engineering, Context Design, Agent-Assisted Workflows, Workflow Orchestration, CI/CD

Platform & Infra: PostgreSQL/Supabase, Redis, Elasticsearch, Docker, Linux, GitHub Actions, GitLab CI/CD, Jenkins, Artifactory

Practices: Requirements Discovery, Cross-Functional Delivery, Root-Cause Analysis, Technical Documentation, Rollout & Adoption

Leadership & Languages: Co-President, Dell Latino Connections West Coast Chapter | American Sign Language (Fluent), English, Spanish

Awards: Hispanic Scholarship Fund Top Scholar, Harvard Prize Book Award, Cal Alumni Leadership Award, STEM Scholar