

Chelsea Kelly-Reif

Software engineering consultant · California Certified Small Business

Davis, CA · (916) 494-1831 · chelsea@chelseakr.com · chelseakr.com · github.com/ChelseaKR

Certifications and identifiers

- **California Certified Small Business (SB)** — DGS Certification **#2054235**, certified August 2026. Eligible for the 5% SB bid preference and **SB/DVBE Option direct awards of \$5,000–\$249,999** (GC 14838.5); registered on Cal eProcure.
- Sole proprietorship · FEIN 42-4314472
- **NAICS**: 541511 (custom programming), 541512 (systems design), 541519 (other computer services), 518210 (data processing and hosting)
- **UNSPSC**: 81111500–81111800 (software engineering, programming, MIS, systems administration), 81112000/81112200 (data services, software maintenance), 81162000–81162300 (cloud SaaS/PaaS/IaaS); ~70-code profile on file

Core capabilities

- **Custom application development**: TypeScript, React and Next.js, Node, Python, C#; production systems from prototype through statewide scale
- **Data engineering and integration**: pipelines and ETL, schema migrations, PostgreSQL, SQL Server, DynamoDB, Snowflake; catalogs kept accurate on weekly cycles for years without a lapse
- **Cloud architecture**: AWS (CDK, serverless, Lambda/DynamoDB/API Gateway), GCP, Azure; a zero-downtime cloud-to-cloud migration carrying 200+ schema changes
- **Public-facing platforms**: WCAG and Section 508 accessibility enforced as merge-blocking CI gates; complete English/Spanish delivery enforced automatically
- **Applied AI with evaluation gates**: retrieval grounding that fails a release when an answer cannot cite its source; merge-blocking adversarial red-team suites; bilingual safety drills
- **Regulated delivery**: FedRAMP and FISMA environments, PCI DSS, federated identity and role-based access, audit logging, legacy mainframe integration

Past performance

- **MyCareer.NJ.gov — State of New Jersey**. Engineering lead and principal engineer for nearly four years. Statewide workforce platform 1.8 million residents have used: 3,800+ training programs published beside real employment and earnings outcomes, bilingual throughout. Winner of a 2026 LMI Institute award (to the NJ Department of Labor).
- **CMS Medicaid & CHIP data collection (MDCT suite)**. Engineering leadership, federal compliance, and delivery for seven applications that states and territories report through; all seven shipped production releases in the first half of 2026, one net-new from empty repository to production in about eight weeks.
- **California Energy Commission**. Architected and shipped the Data Submission Portal, carrying the regulatory data behind statewide energy-demand forecasts; operated MAEDbS, the Title 20 appliance-efficiency certification system of record.
- **California Public Utilities Commission**. Principal software architect; directed the statewide Transportation Carrier Portal to its June 2021 launch (Salesforce, AWS, Snowflake).
- **California Department of Social Services**. Built and operated the public Home Care Aide Registry (170,000+ records, California DOJ and FBI Live Scan integration) and a PCI DSS payment portal serving 140,000+ licensed facilities.
- **UC Berkeley Graduate School of Education**. Led development of digital tools for 21CSLA, the CDE's statewide school-leadership academy initiative.

Open source, run as live public services

GTFS Scorecard (gtfsscorecard.org) scores 2,100+ transit feed records daily · **tods-validate** (PyPI) validates the Transit Operational Data Standard · **Afterward** (afterward.chelseakr.com) joins California training programs to federally reported outcomes · **Homeroom** (github.com/ChelseaKR/homeroom) renders California school data without ever turning a suppressed value into a zero · **fhir-scorecard** grades FHIR API conformance against cited spec text

Why a small business

The senior engineer is the person who does the work: no hand-off between the pitch and the delivery, and small-business pricing without a bench to carry. Five and a half years inside California state government (CDSS, Energy Commission, CPUC) means departmental delivery, procurement, and compliance are familiar ground from the state's side of the table.