Terris Linenbach He/Him
Software Architect / Engineer
terris@gmail.com LinkedIn +1-415-830-4082
San Francisco USA

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Summary	➢ Decades of software development and architecture experience
Education	➢ B.S., Computer Science, 1992 University of California at Davis
Principles	➢ Collaborate with colleagues, customers, and AI Assistants ➢ Do it right the first time on time
Skills	➢ Backend: Kotlin/Spring Boot, NestJS, FastAPI, SQL ➢ Frontend: React, Svelte ➢ Devops
Code and Design	➢ Command Studio: Elixir+Ash+Oban+React+shadcn.ui (2026) ➢ Elixir and Ash Country Search Demo (2025) ➢ Git PR Analysis (Jupyter) (2025) ➢ Tagging Data in LLM Prompts for More Reliable Output (2024) ➢ Coaxing GenAI to Create Grid Tables as Pandoc Markdown Documents (2024) ➢ AWS DevOps Hero (2024) ➢ Querying AWS Athena Using Natural Language with llamaindex (2024) ➢ Using ChatGPT as a Data Transformation IDE (2023) ➢ Adding multiuser support (via CRDT) to a Svelte Kanban component (2023) ➢ Dynamically render a Mermaid diagram with Svelte (2023) ➢ A custom Express Gateway policy for logging request bodies and execution times (2022) ➢ Locating gaps in enumerated rows using the SQL lag window function (2022) ➢ Better soft deletes with NULL (2022) ➢ How ReadStream responds to back pressure (2021) ➢ The art of maximizing coroutine throughput (2021) ➢ Implementing a cron clone for fault-tolerance and scalability (2021) ➢ Storing Timestamps in Global Applications (2021) ➢ A Modern React App to Ring in 2021 (2020) ➢ Streaming a MySQL query in NodeJS (2020) ➢ 'Cancel' async functions in JavaScript using Promises (2020) ➢ A Winston3-based logging utility for Node.js (2020) ➢ Node.js connection and execution utility for MySQL (2020) ➢ A JavaScript queue for limiting task execution (2020) ➢ Deactivating Database Rows With One NULL Trick (2020) ➢ Tedious but necessary C++ unit test example (2019) ➢ vSomeip with Bazel C++11 (2019) ➢ Modern Multi-threaded C++11 with Bazel Starter (2019) ➢ Easy K-Means Clustering with Jupyter, Scala, Spark 2.4, and Docker (2018) ➢ HAPI service using Redis-backed MQTT (2016) ➢ Load testing with Java: Pound on a resource with multiple threads (2016) ➢ Reusable Binary Associations in C++, Dr. Dobbs Journal (1996)
Patents	➢ Co-inventor, US Patent No. 6,480,847 "Database repository with deferred

	transactions," January, 1999
Work Experience	**November 2024 - Current. Citizen Health** San Francisco CA Senior Software Engineer ● Implement backend APIs NestJS ● Implement frontend using React **October 2023 - November 2024. PeerAI** San Francisco CA Founding Engineer ● Design and develop GenAI System for clinical trial regulatory submission ● Jupyter/Colab, FastAPI, NestJS, OpenAI, AWS **September 2017 - October 2023. Science 37 Inc.** Los Angeles CA Senior Software Engineer ● Implement various backend features of Science 37's SaaS virtual clinical trial execution platform using NodeJS, MySQL, and AWS ● Design and implement archiving web crawler with CodeceptJS and Puppeteer ● Integrate clinical data via FHIR integration using NodeJS, AWS S3, Node Serverless SDK , AWS Lambda, and AWS Step Functions ● Design and implement Medidata Rave EDC integration in Python **May 2017 - September 2017. Dianomic Systems** Senior Engineer, Menlo Park CA ● Design and implement components of FogLAMP, an open source edge platform for constrained IoT devices implemented in Python3 **February 2017 - May 2017. ScaleDB** Senior Engineer, Menlo Park CA ● Code (in C++) portions of multi-node cross-platform time-series database engine, particularly multi-node comparison engine **October 2016 - February 2017. Sole Proprietorship** Software Engineer (contractor). Projects included: ● Second factor security product using Spring Boot, REST, JDBC, Spring MVC, Parquet, and Apache Spark with Scala ● MPP time-series MySQL engine in C++ (ScaleDB) **November 2015 - October 2016. Situational** Principal Engineer ● Implement a policy-based enterprise security product with team of 5 engineers (Spring Boot, PostgreSQL, NodeJS) **June 2009 – October 2015. Teradata** San Diego CA Software Engineer, Test ● Design and implement Perl, C/C++, and Java distributed test harness involving test definition, test execution, result analysis, metrics collection, and web-based reporting **December 2005 – June 2009. MarkMonitor** **Acquired by Thompson-Reuters** Senior Engineer ● Code (in Java and GreenPlum) a domain ownership database **July 2005 – December 2005. Sana Security** **Now AVG** Senior Engineer ● Code (in C++) an antivirus competitor

September 2004 – June 2005. Integrated Decision Systems

Now CheckFree

Senior Architect

- Code (in C) portfolio report generator

January 2002 – September 2004. Responsys

Now Oracle

Senior Engineer

- Code (in Java and C++) analytics for email campaigns

December 1999 – January 2002. NetAcumen

Acquired by Responsys

Principal Software Architect

- Code (in C++ and SQL Server) a click analytics competitor using star schema

August 1999 – November 1999. 1View Networks

Principal Engineer

- Code (in Java and Oracle) a Mint competitor

October 1998 – July 1999. nCommand

Principal Engineer

- Code (in C++ and SQL Server) enterprise onboarding/offboarding automation

September 1996 – October 1998. Sagent

Senior Engineer

- Code (in C++) an ORM for an Informatica competitor

October 1995 – September 1996. Intuit

Software Engineer

- Code (in C++) online banking feature in Quicken

June 1994 – October 1995. Sybase

Software Engineer

- Code (in C) PowerBuilder competitor

1992 – 1994. University of California at Davis

Assistant to Professor Richard Walters

- Code (in C) open source MUMPS project

May 1992 – June 1994. Andersen Consulting

Now Accenture

Senior Consultant

- Code (in C and Informatica) service directory for overnight shipping competitor

January 1990 – May 1992. Hunt-Wesson Foods

Industrial Engineering and Inventory Software Developer

- Code (in Clipper) an inventory management system

1982 – 1988. Trippers' Games

Cofounder

- Code (in AppleSoft Basic and 6502 assembler) games and BBSs