



Experience

Google, Cluster Planning Team, 2020-01 to now

Sunnyvale, CA

Datacenter layout optimization software.

- designed & implemented scoring mechanism for datacenter layouts
- TL for team's central data fetching service
- used Python, Java, MySQL, Google Spanner, Bazel/Blaze, Mercurial, internal Google tooling

Scontrino, 2019-08 to 2020-01

Palo Alto, CA

Stealth-mode startup building dining payment technology.

- solo founder
- built payment app and backend
- conducted user research & sales conversations
- pitched to investors
- used Clojure, Datomic, PostgreSQL, ClojureScript, Re-frame, React Native, NFC, RFID, Google Cloud

Brex, 2018-06 to 2019-08

San Francisco, CA

Credit card transaction processing software.

- TL of the credit card transaction processing team
- re-designed and implemented transactional accounting system used to track flows of money as payments move through the payment cycle
- database administration to ensure continued performance

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github.com/jgertm

- recruiting outreach, interviewed candidates & mentored new hires
- infrastructure monitoring & on-call rotation
- used Elixir, PostgreSQL, Kubernetes, Docker, Stripe, Git, Datadog, BuildKite

Ladder Life, 2017-05 to 2018-06

Palo Alto, CA

Life insurance broker full-stack software development.

- developed features in close collaboration with design, product and CX departments to enable automatic life insurance underwriting.
- built voice-controlled flow for Google Assistant and Amazon Alexa devices to get life insurance quotes
- designed, implemented and maintained customer ETL pipeline to enable quick outreach
- infrastructure monitoring & on-call rotation
- lots of internal tooling
- interviewed candidates
- used Clojure, ClojureScript, Datomic, Om/next, Google BigQuery, Dialogflow, Datadog, AWS, Kubernetes, Docker, Stripe, Buck, Git, BuildKite

Stylefruits, 2016-07 - 2017-04

Munich, Germany

Mobile app centered around fashion.

- backend feature development for fashion shopping app in collaboration with frontend and product department
- developed internal tooling for configuration synthesis
- built recommender system for fashion item combinations using Word2Vec
- used Clojure, PostgreSQL, Apache Mesos, Elasticsearch, Word2Vec, Git, Docker

Instana, 2015-05 to 2016-04

Munich, Germany

Infrastructure monitoring software backend development.

- developed cloud resource metrics exporter for infrastructure monitoring startup
- used Haskell, AWS CloudWatch, Git

Skills

Programming languages

- *Expert*: Haskell, Clojure, SQL
- *Intermediate*: Java, Python, Elixir, F#, OCaml, Bash, Nix
- *Beginner*: C, Rust, JavaScript

Databases

- *Expert*: PostgreSQL, Datomic
- *Intermediate*: Google Spanner, SQLite
- *Beginner*: Elasticsearch, MySQL

Tools

- *Expert*: Git, Linux, Nix
- *Intermediate*: Docker, Kubernetes, Bazel/Blaze, Emacs, LaTeX, Mercurial

Services

AWS, GCP, Datadog, Stripe, BuildKite, Heroku

Interests

Compilers, type theory, functional programming, databases, algebra, category theory

Spoken languages

- *Native*: English, German
- *Conversational*: French
- *Basic*: Italian, Mandarin

Education

B.Sc. in Mechanical Engineering, incomplete, 2013-03 to 2016-06

Munich University of Applied Sciences, Germany

Specialized in Automatic Control Systems

Projects & Contributions

lang (author)

Statically-typed functional programming language targeting the JVM.
As rigorous as Haskell, as ergonomic as Clojure.

Compiler first written in Haskell, then re-written in Clojure.

nrx (author)

CLI utility to quickly search and select from streams of text. Written in Haskell.

rules_clojure (author)

Bazel/Blaze toolchain for compiling Clojure projects. Written in Starlark & Clojure.

nixpkgs (contributor)

Linux distribution that is completely determined through a single configuration file. Written in the Nix language.

spacemacs (contributor)

Batteries-included Emacs configuration. Written in Emacs Lisp.