

Derek M Frank

Software Engineer

Email: resume@derekmfrank.com

GitHub: [@defrank](https://github.com/defrank)

Website: <https://derekmfrank.com>

Location: [West Los Angeles, CA](#)



SUMMARY

7+ years of professional experience as a software engineer. With significant startup experience, I have built and maintained modern SOA/microservices, cloud infrastructure, event-driven data pipelines (ETLs), RESTful APIs, impactful internal tools, and user-focused web applications. A proven leader, I have grown to head a small team with three direct reports.

SKILLS

Languages

Expert/Advanced:

Python, Javascript

Proficient:

C, C++, Java, Common Lisp, SQL, Bash

Learning:

Go

Technologies

Expert/Advanced:

GCP, Git, Docker, Kubernetes, REST

Proficient:

AWS, Helm, Apache Beam, Redis, PostgreSQL, SQLite, ArangoDB, Nginx, JWT

EXPERIENCE

Lead Backend Engineer

[FanAI](#)

Full-time | 2017 - Present | Santa Monica, CA

Lead duties are focused on meeting the backend's product roadmap. This includes hiring, sprint planning, unblocking teammates, improving rolling velocity, mentoring new hires, and documenting best practices and processes.

Built several data pipelines for Twitter, Twitch, and FullContact of which the highest impact was an ETL to ingest about one terabyte of Twitter followers daily. Designed to be composable and event-driven so that multiple teams could use without direct support from the backend team.

Implemented and optimized data-intensive APIs. Improved API stability and performance by converting long-running requests to poll-based APIs and enabling strategic pre-caching by working with the product team to change the user flow.

Prioritized team collaboration and maintainability. Migrated frameworks and libraries to enable auto-generation of OpenAPI documentation. Enforced pre-commit hooks to auto-format, lint, and find security vulnerabilities of the codebase.

GCP Kubernetes Helm Docker Python3 Pytest Falcon Hug Dramatiq Apache Beam Redis
PostgreSQL ArangoDB MongoDB RabbitMQ Git Linux

Programmer

Star Labs LTD - Readz

Full-time | 2014 - 2017 | Woodland Hills, CA

Add features and fix bugs for both front-end and back-end of the product. This includes, but is not limited to: Shopify integration, custom copy/paste of elements, analytics tracking via Google-defined sessions.

Full ownership of internal build server used by QA, which behaved like a continuous integration server.

Full ownership of Akamai integration and automation to sync Readz and client domains via Akamai's Property Manager API.

Responsible for full releases of new software on AWS via ELB, EC2, RDS, and S3.

Improved pre-release bug detection of customer content by building an application with PhantomJS2 to compare production content with the current development version. This reduced QA time spent verifying hundreds of customer websites every sprint (i.e., two weeks).



Embedded Systems Test Engineer

Medtronic MiniMed

Contract | 2013 - 2014 | Northridge, CA

Designed, developed, validated, and documented iOS test automation framework and API in Javascript, Python, and Qt4.

Designed, developed, tested, and validated tools using Python to automate testing and interacting with Diabetes-related embedded devices.

Analyzed requirements, designed test cases, created and debugged automated test scripts, and documented work per Medical Standard IEC62304.

Wrote intended use validation test plans based on product requirements, executed validation tests, and documented results to ensure product meets intended use.



EDUCATION

Bachelor of Science Degree, Computer Science

University of California, Santa Cruz

2008 - 2012 | Santa Cruz, CA