

Greg Weber

Experienced Software Engineer

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📖 blog.gregweber.info

In my most recent position as a hands-on manager and technical lead I turned around a low-performing team into a productive and skilled team.

At my previous employer, I created the first version of their SaaS offering to deploy their distributed database.

I have used Golang professionally for the last 6 years. This includes API services, cloud provider integrations, Kubernetes, and business process automation. I have developed several open source libraries.

- The errors library for adding stack traces and metadata to errors: <https://blog.gregweber.info/blog/go-errors-library/>
- A library for precisely handling error codes: <https://blog.gregweber.info/blog/go-error-codes/>
- Higher level concurrency helpers: <https://github.com/gregwebs/go-concurrent>
- A library to help catch panics: <https://github.com/gregwebs/go-recovery>

Experience

management and tech lead	2.5 years management and hands-on tech lead experience.
dev-ops and infrastructure	10+ years experience. Created the first version of TiDB Cloud, a distributed cloud-hosted database. At a biotech company I created a workflow engine that met the data pipeline's scaling needs of a thousand nodes and used minimal resources. <ul style="list-style-type: none">○ Cloud (AWS, GCP) and Kubernetes○ Configuration management with Pulumi, Terraform, CloudFormation, and Cue
Backend	15+ years experience. Web applications and services in Golang, Haskell, and Ruby on Rails.
Compliance/Regulation	5+ years experience. SOC 2, HIPAA, and financial compliance. Developed documentation, process, architecture, and tooling to satisfy regulatory requirements
Security	Creating and enhancing security features, reviewing security posture, improving code quality for security
Hard Problems	Developed a novel method to extract tabular data from PDFs. Worked to improve database security and performance stability: https://github.com/tikv/rfcs/pulls?q=is%3Apr+author%3Agregwebs
Static Safety	Introduced optional typing with Typescript, MyPy (Python), and linters for Golang.

Web Frontend 5+ years experience. Front-end Javascript (TypeScript) experience. Basic CSS abilities.

- <https://eatnutrients.com> a client-side React application I made
- <https://docjumper.com> a client-side React application I contributed to

Data Processing Data processing in Python. Database code in Rust.

Programming Languages

Go 6+ years experience. Cloud, Kubernetes, and web services programming. Created several golang libraries to improve errors, panic handling, concurrency, and parallelism.

- <https://blog.gregweber.info/projects/>
- <https://github.com/gregwebs/errors/>
- <https://github.com/gregwebs/errcode/>
- <https://github.com/gregwebs/go-concurrent/>

Typescript 5+ years experience. TypeScript and Javascript for frontend development with React. Typescript in configuration management with Pulumi and AWS CDK. Wrote 2 different frontend applications: eatnutrients.com and docjumper.com.

Rust I have programmed professionally by contributing to the open source TiKV code base and writing an agent in Rust. My experience with Haskell makes Rust concepts easy to pick up.

- <https://github.com/tikv/tikv/pull/9647>
- <https://github.com/tikv/tikv/pull/9696/files>

Haskell Programmed professionally and authored, maintained, or contributed to many highly used community libraries such as Persistent, Yesod, Shelly, and xss-sanitize.

- Yesod (web framework)
- Persistent (database ORM)
- xss-sanitize (XSS attack prevention)

Python Experience in pipeline, infrastructure, and analysis settings. I have successfully introduced MyPy, unit testing, and continuous integration into Python code bases.

Ruby I have developed Ruby on Rails application and published small Ruby gems in the past

Recent Jobs

2022 - 2025 **Principal Engineer**, *Digital Mint*, Chicago.

I managed a small team and spent most of my time as a hands-on lead developer. I reviewed code, did release management, and wrote code every day. I turned around a low performing team into a productive team that cleaned up technical debt and achieved SOC 2 compliance. I worked closely with those outside engineering to understand our processes and business needs.

2018 – 2022 **Senior Software Engineer**, *PingCAP*, San Mateo.

I lead the development of the initial version of TiDB Cloud and continued with a focus on security and cloud integration. SOC2 compliance. Databases, cloud, Kubernetes. Most of my work was not open source, but there are some open source contributions:

- <https://github.com/tikv/tikv/pull/9647>
- <https://github.com/pingcap/tidb-operator/pull/789/files>

2015 – 2018 **Software Engineer**, *Karius*, Redwood City.

Lead software engineering of the production analytic component and infrastructure at this biotech company.

- Built a job flow controller that scaled up to thousands of machines and down to zero.
- Stabilized research grade software. Managed releases for the software powering the analysis of our diagnostic.
- Developed regulatory documentation
- Involved with HIPAA compliance.

2015 **Lead Engineer**, *Pivot Mail*, San Jose.

A security company that used Haskell.

I improved infrastructure, made specifications, and did release management, and worked on a cross-deployment project to different platforms before the company was wound down.

2013–2014 **Lead Engineer**, *Docmunch*, San Francisco.

Developed a novel PDF table extraction technique from first principles. Wrote frontend and backend web app code.

First engineer at a startup. Led development and technical interviews.

Education

2005 **B.S. ECE**, *University of Iowa*.

Publications

Personal Blog <https://blog.gregweber.info>

Shell scripting with type-safety using Haskell

Original article published in the German Linux Magazin.

Translated to English:

<http://www.linux-magazin.de/Online-Artikel/>

Shell-scripting-with-type-safety-using-Haskell/

Presentations

Functional Front End Coding

<http://begriffs.com/posts/2015-11-30-functional-front-end-coding.html>

Shell scripting with Shelly

<http://www.meetup.com/haskellhackersathackerdojo/events/91714772/>

Building complex UIs with AngularJS

<http://www.youtube.com/watch?v=VxuN6W03tIA>