

Greg Weber

Experienced Software Engineer

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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. This is now a main focus of their business. I also developed approaches to improving security, cloud integration, and compliance.

At a biotech company, I managed a data pipeline running on AWS. I wrote a workflow engine that scaled out to hundreds of nodes.

I am looking for a position that will both value my experience and challenge it. That could be solving difficult technological challenges, diving deep into new industries, or developing further as a leader or manager.

Experience

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|----------------------------|---|
| management and tech lead | 2.5 years hands-on management experience while being a tech lead. |
| dev-ops and infrastructure | 10+ years experience. Lead the creation of the first version of TiDB Cloud, a distributed cloud-hosted database. Was in charge of a data pipeline at a bio tech company. Cloud (AWS, GCP) and Kubernetes. Configuration management with Pulumi, Terraform, and CloudFormation |
| 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 | Enhancing security features, reviewing security posture, improving code quality for security, and developing a process for responding to security issues |
| 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. <ul style="list-style-type: none">○ https://eatnutrients.com a client-side React application I made○ https://docjumper.com a client-side React application I contributed to |

Programming Languages

- Go 6+ years experience. Cloud, Kubernetes, and web services programming. Created a library for precisely handling error codes. <https://github.com/pingcap/errcode>
- 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

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>