

# Greg Weber

*Experienced Software Engineer*

Chicago, IL

☎ (650) 429 8122

✉ [greg+job@gregweber.info](mailto:greg+job@gregweber.info)

📖 [blog.gregweber.info](http://blog.gregweber.info)

My goal is to have a big impact in my next position. In my last position, I was a manager and hands-on lead developer that directed software development. In my prior position, I created the first version of their SaaS offering to deploy their distributed database, which is now a focus of their business. In the position prior I developed a data pipeline that scaled to hundreds of nodes.

In these positions I have been heavily involved with infrastructure work. This includes developing API services, integrating with cloud provider (GCP and AWS) integrations, using Kubernetes, and achieving SOC 2 and HIPAA compliance.

## Experience

- dev-ops and infrastructure 10+ years experience. Cloud (AWS, GCP) and Kubernetes. Lead the creation of the first version of TiDB Cloud, a distributed cloud-hosted database. 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%3Agregweber>
- 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

## 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](https://eatnutrients.com) and [docjumper.com](https://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.

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## Education

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

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## 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/](#)

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## 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>