

I've been working in technology for over a decade and business for longer. I've built technology for everything from microcontrollers to global cloud, from games to datacenters to business intelligence. I've also founded two startups and interned for a civil rights attorney.

I enjoy understanding and solving technical challenges, building teams and processes, and working across silos to deliver results.

Let's discuss how I can help you build success, today!

Work History

My work history has covered a range of clients, both in terms of scale and domain:

- **Consultant — Jan 2021 to Present**

I've spent the most recent three years working as a software and business consultant. I've partnered with startups to medium enterprises where I provided software development, business planning, and leadership coaching services. This would typically be a 3-6mo contract, with 50% of my time focused on software development and 50% focused on business.

Technologies: cloud, compliance; infrastructure-as-code, policy-as-code; AWS, S3, EC2, ECS, Redshift, RDS, Neptune; Python, scipy, pandas, numpy; TypeScript

- **Amazon FinTech — Sr Software Developer — Dec 2019 to Jan 2021**

I worked as a team lead building a tax calculation platform (sales, VAT, etc), utilized for tax filings globally. As team lead, I designed the architecture for an Excel-to-ETL compiler, which translated tax rules written in Excel spreadsheets into Amazon-scale ETLs. I then led the team on the implementation, turning a single-file 3000 line proof-of-concept into a modular and extensible library with over 1000 tests for correctness. This project reduced changes to tax ETL pipelines from 4 weeks to 4 hours, while putting tax analysts in control.

Technologies: cloud, compliance; infrastructure-as-code, policy-as-code; formal verification; AWS, S3, EC2, ECS, Redshift, RDS; Python, scipy, pandas, numpy; TypeScript

- **WarnerMedia — Software Consultant — Nov 2018 to Oct 2019**

I worked to build a prototype hybrid-cloud system for WarnerMedia, which connected their hardware test datacenter to their AWS build environment.

For this project, I worked under the head of the datacenter team to build a prototype controller for their MacOS, PlayStation, Xbox, etc test devices. This allowed their physical test hardware to be utilized by the cloud build pipeline for automated testing of new releases. Additionally, I assisted in facility operations – ranging from datacenter hardware install/maintenance to developing and deploying network uptime monitors.

Technologies: cloud, hybrid cloud, datacenter; switches, servers, IOT; networking; AWS, AWS IOT, ECS; Typescript, Golang

- **Amazon Devices — Software Developer — Oct 2017 to Aug 2018**

I worked building a platform for modeling customer preferences, as part of the econometrics team. This platform was used by both Devices and Prime organizations to understand what features drive customer behavior. I discovered a multi-year, multi-billion dollar misallocation in Prime finance and I served as the SDE warroom representative during organizational triage. I worked with principal engineers from multiple teams to redesign the modeling and prevent reoccurrences.

Technologies: cloud; AWS, S3, EC2, ECS; Python, numpy, scipy, pandas; Java, Ruby

- **Consultant — Jan 2014 to Oct 2017**

I worked as a consultant at various startups early in my career. I delivered website features, AI safety (eg, removing profanity), gameification (eg, inducing behavior with coupons), and business intelligence (eg, marketing results).

Technologies: cloud; AWS, S3, EC2; Python, Javascript

About

Experience

- **Barnes Law, LLP — Law Clerk Intern — Q4 2022**

I worked on the research team for a civil rights case concerning the USDA suing a small farmer. My arguments ended up being adopted by the negotiating lawyers while settling the issue with the federal agencies.

Education

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| Seattle University | BSc | Mathematics | 07-10 |
| | BSc | Computer Science | 07-10 |
| Edmonds CC | ASc | General Science | 05-07 |

Projects

Please view my select public projects:

<https://github.com/zmgehlke>

<https://github.com/spacepowermonkey>

More

For more information, please visit <https://zmichaelgehlke.com/about/>