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Cloud Engineering Leader • Innovator • Problem Solver; looking to pivot into project, product, and program management roles.

Links: [GitHub \(personal\)](#) • [GitHub \(side project\)](#) • [LinkedIn](#) • [Stack Overflow](#) • [Role-targeted résumés](#)

Format: [Web](#) • [PDF](#) • [Word](#) • [OpenDocument](#)

Summary

Cloud engineering leader with a diverse background spanning design, development, security, and innovation. Proven expertise in building scalable infrastructure, driving efficiency, and enhancing user experience. Adept at leading teams, streamlining complex processes, and fostering knowledge-sharing cultures. Passionate about solving real-world problems through technology, security, and strategic thinking.

Key Skills

- Cloud Engineering and Infrastructure
- Technical Leadership and Team Building
- Cost Optimization and Strategic Planning
- Security and Compliance
- Documentation and Knowledge Sharing
- Open Source Development

Work Experience

[McGraw Hill](#) — Remote (since COVID), previously Seattle, WA

McGraw Hill is a learning science company which produces textbooks, digital learning tools, and adaptive technology to enhance learning. It is one of the "big three" educational publishers in the U.S.

Principal Engineer, Cloud Center of Excellence (January 2024—October 2024)

- Joined a team whose mission was to provide guidance and support in the cloud journey of the entire organization.
- Started development on v2 of a project which scanned AWS accounts for misconfigurations and vulnerabilities. Goal was to reduce an [AWS Well-Architected](#) review from 2 weeks to 2 hours with automated scans, enabling more reviews annually (10 → 100).
- Managed the migration from [CentOS](#) to [Amazon Linux](#) before the CentOS end-of-life date.
- Proposed best practices, guardrails, and security measures to ensure a secure and efficient cloud environment.
- Identified opportunities to extend the security measures and guardrails devised for AWS to other cloud platforms.

Principal Cloud and Platform Engineer (June 2020—January 2024)

- Led the team who supported all SRE and product engineering teams, scaling core platforms and services as every school in America transitioned to online learning during the COVID-19 lockdowns.
- Authored/edited over 1,800 [Confluence](#) documents with the goal of reducing *tribal knowledge*.
- Partnered with Enterprise Architecture and [AWS Professional Services](#) to deploy [Control Tower](#) and [Identity Center](#), resulting in lowered costs and improved control over account guardrails.
- Managed the Base [AMI](#) program (server disk images). Leveraged insights from [CIS](#), security patching, and internal needs to develop a unified build pipeline integrating best practices. Reduced time-to-boot, and eliminated engineering toil (1 → 10).
- Spearheaded the [Artifactory](#) Rebuild project. Ran the project from inception to completion, including the majority of development. Directed effort across ~80 teams and ~300 services to complete the project.
- Resolved all technology blockers preventing migration lower-cost [ARM64](#) CPUs, opening the door for ~\$450k/year in cost savings.
- Led dozens of smaller projects, offered guidance to engineers on best practices, and documented knowledge.

Engineering Manager, Site Reliability (October 2018—June 2020)

- Managed a team of four, while working to level-up the team's technical skills and leadership capabilities. Conducted regular 1:1s, performance reviews, and career development discussions.
- Revamped the SRE interview process to prioritize a 70/30 focus on software engineering (Dev) and systems operations (Ops). Emphasized leadership qualities, bias for action, and high curiosity.
- Led the [Site Reliability Engineering](#) (SRE) team in addressing macro problems affecting engineering, empowering self-service.
- Established a process for maintaining reusable [Terraform](#) modules which teams leveraged to compose infrastructure.

Staff Software Engineer (October 2016—October 2018)

- Led the development of Tier-1 services within the educational content authoring pipeline, leveraging technologies such as [REST](#), [GraphQL](#), API design, [Amazon ECS](#) (similar to [Kubernetes](#)), [Docker](#), [Terraform](#), [ePubs](#), and security best practices.
- Led the development of the authoring component of the [SmartBook 2.0 product](#), and the internal system which indexes authored content, builds ePubs, and encodes images/video for the ePub CDN using [ffmpeg](#).

- Established the technical direction of these projects, promoted adoption across the organization, published comprehensive documentation, and offered ongoing integration guidance.
- Accelerated the adoption of CI/CD, rapid deployment practices, and Docker containers, shortening the feedback loop for developers and increasing the reliability of deployments.

WePay — Redwood City, CA

WePay is an online payment service provider which provides “payments for platforms”, where examples of platforms are GoFundMe, Care.com, and Xbox. JPMorgan Chase acquired WePay in October 2017.

DevOps Engineer (April 2015—September 2016)

- Led a cross-company initiative to upgrade the monolithic application from [PHP 5.4](#) to PHP 5.6 (the latest at the time). Facilitated cross-team collaboration among all major engineering teams and QA departments to achieve results.
- Initiated a program to automate the creation of base server images for cloud servers. This allowed new servers to boot and begin serving traffic ~75% faster.
- Invested in monitoring and alerting systems to prevent customer-facing issues ([New Relic](#), [Grafana](#)).

Senior API Engineer (April 2014—April 2015)

- Led the company’s [HackerOne](#) security program, coordinating across teams to address security issues.
- Built a local development environment for engineering teams using [Vagrant](#). Eliminated "works on my machine", and reduced new engineer onboarding time from 2 weeks to 1 day (measured by when a new employee could make their first commit).
- Expanded WePay’s payment security offerings by designing MFA-as-a-Service (U.S. patent filing [US15042104](#)).

Amazon Web Services — Seattle, WA

Amazon Web Services provides on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered, pay-as-you-go basis.

Web Development Engineer II (March 2010—April 2014)

- Created the [AWS SDK for PHP](#), enabling AWS to reach millions of new developers.
- Initiated the creation of [AWS SDK for PHP](#) v2 to address changes in the PHP language and growth of AWS services.
- Led one of the first teams to provide reusable UI building blocks for the [AWS Management Console](#), by collaborating directly with the AWS Design team.
- Invested in increased transparency, better communication, and improved tooling for developers. [[Examples](#)]

Older roles, side projects

See "[Previous experience, side projects](#)" for additional details.

- [Northwood Labs](#) — Owner (January 2024—Present)
- PCR Publishing (Side-Project) — Editor, Typesetter, Publisher, Book Producer (April 2021—April 2022)
- Perimeter of Wisdom, LLC (defunct) — Co-Owner, CTO, Producer (February 2015—2018)
- Rearden Commerce (now [Deem](#)) — Senior User Experience Developer (July 2008—March 2010)
- [WarpShare](#) (defunct) — Co-Founder and Chief Information Officer (September 2006—March 2010)
- [Yahoo!](#) — Front-end Developer (Contract), Yahoo! Messenger (November 2007—January 2008)
- [Stryker](#) — User Interface Developer (Contract) (May 2005—September 2006)
- [Digital Impact](#) (now part of [Axiom](#)) — Production Specialist (March 2004—April 2005)

Examples of Technical Documentation

Here are examples of my public-facing documentation:

- [Setting up macOS for development](#)
- [Local AWS Lambda environments \(with Go\)](#)
- [Local development environment \(devsec-tools\)](#)
- [Configuring DataGrip for Valkey \(devsec-tools\)](#)
- Diagrams of Artifactory [infrastructure](#) and [software](#) configuration.
- Diagram of a [secrets-rotation system](#).

Recommendations

See a [selective list of recommendations](#) from co-workers and peers.

Patents and Notable Open-Source

- U.S. patent filing, "[System and Methods for User Authentication across Multiple Domains](#)" (US15042104) (2016)
- U.S. patent filing, "[Hive-based Peer-to-Peer Network](#)" (US8103870B2) (2007)
- [SimplePie](#) — An RSS parser for PHP; founded in 2004; integrated into [WordPress](#) core since 2009. Millions of global users.
- [CloudFusion](#) — A PHP SDK for AWS; founded in 2005; later became the official [AWS SDK for PHP](#). Millions of global users.

Skills

This list is not exhaustive, but these are software and hard skills I leveraged in the roles above which are most relevant to PM, TPM, and Product roles.

[Confluence](#), [Jira](#), agile, coordination, documentation, kanban, organization, platforms, project management, risk mitigation, roadmap management, scrum, stakeholder management, vendor management.

Education

Silicon Valley College (now [Carrington College](#)), San Jose, CA. Bachelor of Arts, *Design and Visualization*