

Jeff Cook

Contact Information

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<https://jeffcook.io>

(801) 837-9329

» Sr. Principal Software and Engineering Leader

» 19 Years Professional Experience

Select Engagements

First Foundry – Sr. Software Engineer in Cloud

May 2023 – May 2024 • Fully Remote

KEY TECH: **Python, AWS, Kubernetes, Terraform, Rust, blockchain**

- Built a Python-based system to manage Harness and GitHub Actions pipelines, facilitating **automatic migration** from legacy Harness to GHA and **automated generation of new pipelines**.
- Managed and maintained several AWS accounts via Terraform for a cutting-edge Web3.0 blockchain startup making heavy use of **AWS Lambda, DynamoDB**, and other cloud-native technologies.
- Assisted with the development of internal chatbots making use of local **large language models** and experimentation with **AI image generation** via Stable Diffusion.

Coral's Coral – Contract AI/eCommerce Developer

October 2020 – Present • Utah

KEY TECH: **Python, Shopify, OpenMM-Lab, GraphQL, TypeScript, crawl**

- Built a **Computer Vision system** for detecting specific coral species from images/video.
- Integrated with Shopify's GraphQL API and custom vendor backends to bring **near-real-time inventory updates** for tens of thousands of products.

Newfold Digital – Sr. Principal Software Engineer

October 2020 – January 2023 • Provo, UT

KEY TECH: **AWS, Python, Perl, TypeScript, React, bash, Docker, OpenShift, Jenkins**

- Contributed to the core hosting platforms that **power BlueHost, HostGator, and other worldwide shared hosting brands**.
- Built a platform for the **automatic containerization of legacy CentOS 6 / Perl 5.10 applications** onto a modern OpenShift-based framework.
- **Technical lead on a backstage.io-based dev portal**, including generation of new repos, build pipelines, and techdocs.

DeepSee.ai – Cloud Systems Team Lead

March 2020 – September 2020 • Lehi, UT

KEY TECH: **AWS, Python, GitHub Actions, Terraform, Gradle, Docker, bash, git**

- Led integration of bleeding-edge GitHub Actions pipeline, **enabling instant CI/CD straight from GitHub → AWS**.

Skills

- ✓ **Platform leadership** through **cross-functional teams** traversing many stacks and systems.
- ✓ Soup-to-nuts architecture of **scalable platforms, servers, and software**, handling **millions of concurrent users**.
- ✓ Project leadership, management, and team coordination.
- ✓ DevOps and infrastructure-as-code for the cloud era: production deployments of **Kubernetes, Fargate, and more**.
- ✓ Open-source and community participation, including patches to the **Linux kernel, The WINE Project, and WebKit**.
- ✓ Infrastructure rapid incident response: alert management, uptime monitoring, on-call rotation.
- ✓ Full-stack **security hardening and performance optimization**.
- ✓ Comprehensive system performance monitoring: distributed tracing, APM, log aggregation, filtering, and alerting.
- ✓ Artificial Intelligence: experience working with and **deploying LLMs, diffusion models, and more**

Cornerstone OnDemand – Principal DevOps Engineer

Marc 2019 – March 2020 • Sandy, UT / Santa Monica / San Francisco

KEY TECH: **AWS, CloudFormation, Jenkins, Python**, haproxy, shell, git

- Architected and implemented transition from an unmaintained Mesos cluster to a **fully automated, dynamically generated Amazon Fargate** infrastructure with 1-click rebuild and comprehensive self-healing.

Willis Towers Watson – System Infrastructure Team Lead

July 2018 – March 2019 • South Jordan, UT

KEY TECH: **SaltStack, VMWare, NetApp, Terraform, Python, C#, Azure**.

- Led teams of software and platform engineers charged with **core infrastructure stability** and deployments. Developed cloud migration, infrastructure as code, and broad system architecture strategies.

WildWorks – Principal DevOps Architect

Jan 2014 – Feb 2018 • Remote from Florida

KEY TECH: **AWS, Kubernetes, Docker, Java, WebGL**, Ruby, Go, Linux.

- Developed and supervised systems that runs Animal Jam, an online multiplayer game with **>500,000 daily active users**.
- Key role in the early adoption of **Docker** and **Kubernetes**, converting all production systems to containers and pods.

Deseret Technology LLC – Founder, Lead Engineer

2007 – 2015 • Salt Lake City, Utah

KEY TECH: **Python, Ruby on Rails, PHP, Bitcoin, .NET, Android**.

- Founded and led a **full-stack software consulting group** focused primarily on backend software development.
- Provided optimized and tailored services to **organizations across the board**, from large universities to scrappy startups.
- Solved our client's **most challenging technical problems** across a wide range of technologies and platforms.

Progressive Finance – Sr. Director of Software Engineering

Jan 2014 – Feb 2018 • Sandy, UT

KEY TECH: **ASP.NET MVC, ServiceStack, C#, knockout.js, Windows**

- Collaborated closely with the CIO and other directors to **revamp process and establish consistent, sustainable development tools**, strategies, and methodologies.
- Orchestrated a transition from legacy desktop app to an **API-first service-oriented architecture** in a flexible, multiplatform .NET stack
- Integrated **open-source platforms** where possible and optimized usage of version control with git.