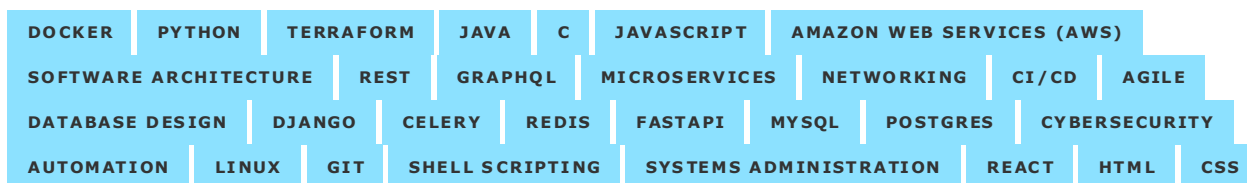


With more than 10 years of engineering experience across multiple industries, I bring positivity and a growth mindset to every team I join. My passion for learning, collaboration, knowledge sharing, and technology has equipped me to lead engineering teams to success.

Skills



Work Experience

DevOps Engineer

2021 November - 2023 September

Hometap

Boston, MA (hybrid)

My position as Hometap's first devops engineer provided a unique opportunity to help guide the team through the challenges of its devops evolution. I was responsible for the design, implementation, and support of the company's cloud infrastructure, CI/CD pipelines, automation tooling, and application monitoring systems.

Platform Engineering

Responsibilities:

- design the cloud architecture and implementation plan of an [AWS ECS](#)-based platform for running containerized backend services
- lead the migration from disparate code repositories with inconsistent support for CI/CD to a unified, standardized development platform providing a predictable and consistent developer experience
- collaborate cross-functionally with internal stakeholders to identify pain points and bottlenecks between scrum teams, and develop solutions to address them
- implement, maintain, and champion [cross-platform Docker image builds](#) as engineering team transitioned from `x86_64` to `arm64` development machines

DevOps Engineering

Responsibilities:

- design and implement CI/CD pipelines for multiple applications, languages, and life cycles using the following platforms: [GitLab CI/CD](#), [GitHub Actions](#), [CircleCI](#)
- optimize the execution speed of a large [Python / Django](#) test suite, reducing [lead time for changes](#) and [change failure rate](#)
- guide the team's transition to using [Terraform IaC](#) for consistent creation and management of cloud infrastructure across multiple AWS accounts
- implement and maintain [Terraform IaC](#) stacks for managing cloud resources in the following AWS services:

Full-Stack Software Developer

MORSE Corp

2020 August - 2021 November

Cambridge, MA (hybrid)

As a senior developer on a rapidly growing team, I was able to provide guidance and technical insight to younger developers. Through effective collaboration, troubleshooting, process development, and technical accomplishment, I established a reputation as a subject matter expert for Docker, Python, Terraform, AWS, `git`, GitLab, CI/CD, DevOps, and cloud-native web applications.

Full-Stack Software Developer

In this position, I met the following responsibilities:

- Provide in-depth expertise for DevOps best practices and administration, supporting the cloud deployment, operations, and scaling of an internally-managed [GitLab](#) instance
- Implement advanced CI/CD pipelines for automating deployments of a microservices-based web application across multiple staging and production environments
- Implement automation tooling for quantifying QA metrics, improving product stability, development speed, and developer satisfaction
- Implement Terraform IaC for scalable, reusable cloud deployment configurations of AWS services to support internal product development and operations

Software Engineering Consultant

Outdoorlink

2020 August - 2022 January

Boston, MA (remote)

I was the primary contributor to the development and maintenance of a distributed web application providing Django-based REST APIs and a React-based JavaScript frontend hosted in an [AWS VPC](#) with redundancy managed through [Celery](#) and [AWS RDS](#) for increased availability. The application was designed to manage scheduling, status, communications, and operations of an IoT fleet of utility power management devices utilizing cellular communication technologies for the control of more than 70,000 billboard structures in the US, Australia, and South America.

After relocating to Boston, MA, I retained a part-time consulting position at Outdoorlink.

Consulting

- Contributed to a new product launch by kick-starting a RESTful API for modeling and managing product data
- Developed a Django application for user identity and access management

AWS Infrastructure

I supported maintenance and operations of the infrastructure that Outdoorlink uses to host its web applications and data. Additionally, I implemented [Terraform IaC](#) for deploying new infrastructure components and services.

- Maintained and enhanced GitLab CI/CD pipelines for application deployment and updates
- Implemented GitLab CI/CD pipelines for consistent deployments of Terraform-managed resources
- Used Terraform to enhance cloud security through high-precession security group and networking configurations
- Developed new deployment strategies to minimize infrastructure costs and downtime while improving scalability

Lead Software Engineer

2019 February - 2020 August

Outdoorlink

Huntsville, AL

DevOps Engineering

- Pushed testing left by developing multistage CI/CD pipelines for automating the following tasks:
 - code static analysis, linting, formatting, style checks, test suite execution, and coverage reporting
 - dependency updates, package installation, runtime image builds, documentation builds, and deployments to test and production environments
- Maintained internal [GitLab](#) server for hosting project repositories, collaborating on feature requests and bug fixes, and reviewing code changes and deployments
- Containerized applications with [Docker](#) to support concurrent test suite executions across on-prem servers, reducing the feedback cycle for testing requested changes to the codebase

Full-Stack Web Development

- Supported development and migration from a legacy SOAP API to a modern Django-based REST API for manipulating IoT schedule settings
 - Communicated with customers for identifying API requirements and prioritizing feature requests/bug fixes
 - Created URL schema documentation with [Swagger](#), [Redoc](#), and [Postman](#)
 - Developed reusable Django application for logging REST API HTTP request details to multiple servers over TCP, supporting better OutdoorLink support to customers utilizing the REST API
- Supported app migration from on-prem servers to an AWS cloud deployment
 - Managed AWS infrastructure for networking, compute resources, user authorization, scaling, and deployments
 - Configured system and application logging across [AWS EC2](#) instances for `NGINX`, `python`, and `syslog` for improved visibility and troubleshooting
- Integrated [sentry.io](#) for error monitoring, tracking, and triage
- Optimized PostgreSQL DBMS configuration to mitigate OOM conditions, stale connections, and disk space usage

Engineer

2016 October - 2019 February

IERUS Technologies

Huntsville, AL

As an engineer at IERUS Technologies, I contributed to a variety of SBIR contracts for the Department of Defense and similar research initiatives. I also worked on-site at Raytheon for several subcontracts. My contributions included software development, radar processing/analysis, and modeling/simulations.

Embedded Systems Engineer

RMCI, Inc.

2012 August - 2016 October

Huntsville, AL

After interning with RMCI during my senior year of college, I grew into a full-time role as embedded systems engineer. I contributed to the development of [XRDS™](#), a single-board computer system that measured vibration signals from helicopter drive train components to detect hardware faults.

Research Assistant

University of Alabama in Huntsville

2012 February - 2012 December

Huntsville, AL

I worked part-time as a research assistant at the [Systems Management and Production \(SMAP\) Center](#), where I contributed to the development and operations of small unmanned aerial vehicles.

PASS Leader

University of Alabama in Huntsville

2010 August - 2012 December

Huntsville, AL

I lead group study sessions for students of all ability levels in the following courses: Differential and Integral Calculus; Engineering Mechanics: Statics; and Engineering Mechanics: Dynamics.

Education

The University of Alabama in Huntsville

2009 - 2013

Bachelor of Science in Engineering, Mechanical Engineering

GPA	4.00
Activities and societies	Tau Beta Pi, Pi Tau Sigma, AIAA
Graduation Status	Summa Cum Laude

Security+ Certification

April 2021

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