

Bryant Finney

Principal Engineer

✉ finneybp@gmail.com

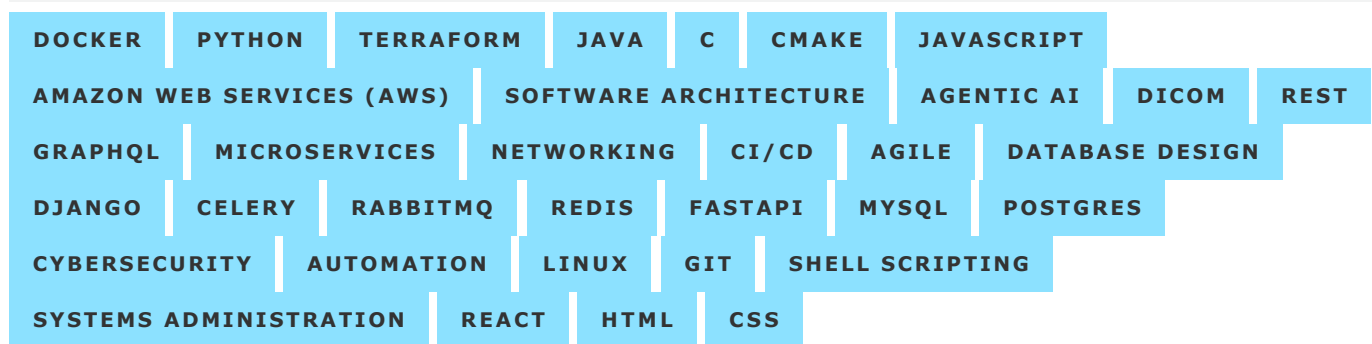
📍 Boston, MA

🌐 [LinkedIn](#)

🐙 [GitHub](#)

With more than 14 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

Principal Platform Engineer

Elucid

2023 October - 2026 September

Boston, MA (hybrid)

As Elucid's Principal Platform Engineer, I led the architecture, design, and implementation of the cloud platform that powers the company's arterial analysis software. My responsibilities spanned platform infrastructure, release engineering, and site reliability — guiding the evolution of a regulated medical-imaging product from desktop application to cloud-native SaaS.

Platform Architecture

Responsibilities:

- lead the design and implementation of an [AWS ECS](#)-based containerization platform for the company's arterial analysis software, reducing production deployment time from hours to under five minutes
- architect a cross-region warm-standby disaster recovery footprint, defining the [Terraform IaC](#) patterns for network, compute, storage, and identity layers

- design asynchronous task-processing infrastructure for backend services, introducing managed message brokering and dedicated worker tiers to support scalable, long-running workloads
- guide the evolution of the company's service-based architecture, partnering with engineering leaders to navigate organizational and technical trade-offs
- establish cross-account, multi-region distribution patterns for AMIs and container images, decoupling build pipelines from deployment topology
- own multi-account cost management for over eighty environments serving six product development teams, balancing engineering velocity with budget accountability
- develop DICOM interoperability and performance-testing tools, including a cross-platform C-ECHO service class user and a Python-based load-testing harness for DICOM service class providers

Backend Application Development

Responsibilities:

- build Django applications for managing RabbitMQ message-broker configuration
- implement a distributed lock coordinating Django ORM database migrations, unblocking autoscaling, redundancy, and deployment process features that would otherwise have produced migration collisions — surfaced by collisions in the nightly `dev` environment, most often on bulk data migrations, where RunPython operations are not wrapped in a database transaction by default
- develop a continuous health-check monitor built on django-health-check, running its full set of built-in checks alongside custom checks for DICOM service availability (C-ECHO) and for external API availability via requests

DevOps Leadership

Responsibilities:

- own monthly release cadence across multiple coupled product repositories, coordinating cross-team delivery and the supporting regulatory documentation
- design and build internal CLI tooling for orchestrating multi-repository releases, consolidating configuration, and enabling developer self-service workflows
- democratize backend service development by delivering per-team containerized development environments, accelerating feature parallelism across the engineering organization
- lead adoption of agile delivery practices including backlog refinement, sprint retrospectives, and architectural decision records

- mentor engineers across teams through design reviews, pull request feedback, and pairing on platform-engineering tasks
- design and execute an AI-agent-orchestrated environment teardown workflow using isolated git worktrees, canary validation, and account-scoped safeguards, reducing cloud costs by roughly 30% without disrupting in-flight regulated work

Site Reliability & On-Call

Responsibilities:

- establish the company's on-call program, defining service-level indicators and objectives, runbook standards, and a blameless postmortem culture
- implement Slack-integrated alerting tooling to streamline incident triage and reduce time-to-acknowledge
- design observability dashboards spanning deployment pipeline health, environment version tracking, and infrastructure performance
- lead adoption of application performance monitoring  and software cataloging to clarify service ownership across the engineering organization
- partner with engineering teams to embed reliability practices into the regular development lifecycle

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.

Full-Stack Software Developer

2020 August - 2021 November

MORSE Corp

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.

Software Engineering Consultant

2020 August - 2022 January

Outdoorlink

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.

Lead Software Engineer

2019 February - 2020 August

Outdoorlink

Huntsville, AL

As Outdoorlink's lead software engineer, I drove the migration of the company's IoT management platform from a legacy SOAP service to a modern Django-based REST API, and from on-premise servers to an AWS cloud deployment. I established the team's CI/CD pipelines, containerized workloads with Docker, and added error monitoring and database tuning to improve reliability and developer feedback cycles.

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

2012 August - 2016 October

RMCI, Inc.

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

2012 February - 2012 December

University of Alabama in Huntsville

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

2010 August - 2012 December

University of Alabama in Huntsville

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

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