

James Hounshell

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EDUCATION

UNIVERSITY OF VIRGINIA

MS, NEUROSCIENCE
2016 | Charlottesville, VA

JAMES MADISON UNIVERSITY

BS, BIOTECHNOLOGY
2012 | Harrisonburg, VA

LORD FAIRFAX COMMUNITY COLLEGE

AAS, SCIENCE
2010 | Middletown, VA

LINKS

Github:// [jameshounshell](#)
LinkedIn:// [jameshounshell](#)

SKILLS

SOFT

Adept:

- Speaking plainly
- Skipping technobabble
- Including stakeholders
- Pair Programming
- Mentoring

HARD

Adept:

Python • Terraform • Docker
Jenkins • Git • AWS
DataDog

Proficient:

SQL • Postgres • CloudFormation
Linux • MatLab • PHP

Familiar:

Kubernetes • ConcourseCI
CircleCI • GoLang • Java
JavaScript • Angular • \LaTeX
CSS

PERSONAL

Likes:

Coffee • RTS Games • Sketching
Organization • Clean Code
Sushi

EXPERIENCE

CAPITAL ONE | SENIOR DEVOPS ENGINEER

Jan 2020 - Present | Richmond, VA
Enterprise Jenkins Team

Following the success of last year I seek to further enhance cost optimization by providing containerized Jenkins Masters for a new small account model which employ Jenkins Masters per Capital One AWS account (3000+).

CAPITAL ONE | DEVOPS ENGINEER

Jan 2019 - Jan 2020 | Richmond, VA
Enterprise Jenkins Team

I worked on the team providing Jenkins for all of Capital One (70+ Jenkins masters, 7000+ users). In this position I played a major role in migrating Jenkins agents from a nearly static EC2 based architecture to ephemeral ECS based agents. Essentially each build gets a unique, disposable jenkins agent as a docker container. This overall increased platform stability and saved approximately 7 million dollars a year in AWS infrastructure costs by provisioning small (30-150 node) multitenant ECS clusters, agnostic to the workloads that were being run on the cluster.

To accomplish this goal I wrote almost half of the Terraform, python library, and CLI used to control and deploy the new infrastructure. I worked with users to discover use cases, remediate bugs, and wrote new tests to future proof against regressions. Technical challenges included: isolating user space docker builds from the host infrastructure (docker daemon as a sidecar container, instead of host daemon), applying aws privileges (AWS IAM) and networking (VPC networking, security groups) at the container level, and the overall challenge of meeting existing user expectations in the new architecture.

CAPITAL ONE | DEVOPS ENGINEER

Jan 2018 - Jan 2019 | Richmond, VA
Digital Messaging Platform

Actively tried to change Ops heavy DevOps culture in a group that uses a large ECS and Message Bus architecture in AWS. To that end I maintained and improved software pipelines using infrastructure as code (Terraform) and strong integration testing (e.g. Python/Pytest).

- Provided support for and maintained ECS Clusters (8+ clusters, 100+ developers, 100+ services).
- Routinely deployed infrastructure and applications using blue/green and canary style deployments.
- Wrote a python library for the automation of Terraform import of existing resources and the programmatic generation of the configuration of those resources, which provided my team the ability to back up and clone existing clusters.
- Mentored rotational trainees from the Capital One Technology Development Program

APIVISTA | ASSOCIATE DEVOPS ENGINEER

Jan 2017 - Dec 2017 | Richmond, VA

Opened my eyes to DevOps as my passion by working with clients to migrate applications to Docker and AWS.

MAXX POTENTIAL | APPRENTICE SOFTWARE DEVELOPER

June 2016 - Jan 2017 | Richmond, VA

Made the transition from academia to tech by cutting my teeth on basic web development projects.