

Jesse Cotton

DevOps Engineer

jcotton1123@gmail.com • (856) 469-1363
<https://jessecotton.com/> • San Diego, CA

Seasoned professional with record of developing and executing robust DevOps strategies, ensuring alignment with business goals. Expert in deploying infrastructure and applications in cloud environments, optimizing both system performance and operational efficiency. Demonstrated exceptional skill in managing and improving CI/CD platforms, testing tools, and code management systems, significantly enhancing development workflows. Known for effective collaboration with cross-functional teams, driving solution adoption, and fostering culture of continuous improvement.

Areas of Expertise

- ◆ DevOps & DevSecOps Strategy
- ◆ Cloud Solution Architecture
- ◆ Continuous Process Improvement
- ◆ CI/CD Implementation
- ◆ Scalable System Design
- ◆ Cross-functional Collaboration
- ◆ Automated Testing
- ◆ Infrastructure as Code
- ◆ Agile Methodologies

Technical Proficiencies

Programming Languages: Python | Ruby | Javascript | PHP | Go | Java

Software Development Concepts: 12-Factor App | Microservices | Distributed Computing | System Development | Web Development | APIs

Tools: Containerization (Docker, Kubernetes) | Configuration Management (Ansible, Chef, Puppet) | Infrastructure Provisioning (Terraform, CloudFormation) | Continuous Integration/Continuous Deployment (CI/CD) (Jenkins, Gitlab CI, CircleCI, TravisCI) | Infrastructure as Code (Terraform, Ansible, CloudFormation)

Platforms: Cloud Services (Amazon Web Services, Rackspace/OpenStack)

Professional Experience

SaaSWorks, Boston, MA – Remote
Full-stack Developer

2022 – Present

Spearhead DevOps and Cloud Engineering initiatives to establish secure and scalable infrastructure for SaaSWorks' initial customer base. Expand role upon return in 2022, focusing on diverse projects ranging from web application and data pipeline development, to sensitive data handling and SOC 2 compliance.

Data Ingestion and Modeling Innovator

- Engineered bespoke solution for data challenges in health and wellness industry, integrating push and pull data flows and effective data filtering, tokenization, and masking.
- Managed full and incremental datasets, significantly optimizing data processing and access costs.

Framework Development and Implementation

- Implemented internal mini-framework for data export (CSV, XLSX, Parquet), boosting performance and reducing costs.
- Enhanced developer experience and aligned framework with platform's future state, deploying with minimal regressions through novel QA process.

Data Pipeline Migration Leader

- Orchestrated migration of data pipeline to containerized environments, achieving increased reliability and reduced runtime errors.

- Implemented automated tests, continuous integration pipelines, and comprehensive documentation for deployment processes and developer workflows, substantially improving developer efficiency.

Bitlancer, Boston, MA – Remote DevOps/Cloud Engineer

2012 – 2022

Collaborated with over 40 businesses including startups, higher education institutions, and large financial organizations. Specialized in rapid acclimation to new projects, consistently delivering immediate value, meeting milestones, and ensuring smooth project transitions. Re-engaged by multiple clients for successive projects, testament to quality and impact of delivered work.

Platform as a Service (PaaS) Development

- Integral team member in development and support of an internal PaaS leveraging Kubernetes and AWS.
- Significantly reduced project backlog through efficient handling of bug fixes and feature requests, enabling team to embark on larger initiatives.
- Enhanced and maintained Terraform automation for PaaS deployment and internal APIs.

Feature Platform Construction

- Played key role in building feature platform, transitioning between DevOps, MLOps, and development roles.
- Owned infrastructure and deployment processes, contributing to core compute engine and documentation.

Terraform Automation Specialist

- Implemented and maintained Terraform automation for AWS service adoption, adhering to industry and organizational best practices.
- Developed 30+ Terraform modules and several custom plugins, coupled with extensive documentation and testing.

AWS Migration Project

- Part of select three-person team that successfully migrated distributed web application from Heroku to AWS.
- Executed scalable, secure architecture on AWS, incorporating continuous integration and deployment processes.

Stockton University, Pomona, NJ Network/System Administrator

2010 – 2012

Managed administration and support of university's infrastructure, networks, and systems as part of compact, expert team. Oversaw 30+ physical servers and blades, 50+ virtual servers, and diverse hardware such as tape libraries and network attached storage arrays. Supervised layer two, layer three, and wireless network operations, including critical services like DHCP, DNS, RADIUS, among others. Administered two Active Directory domains, over 10 Windows systems, and more than 15 Unix/Linux systems.

Wireless Technology Migration Leader

- Led successful campus-wide migration to Cisco's unified wireless technologies, achieving minimal downtime.
- Enhanced network performance, security, and user experience through strategic implementation.

Single-Sign-On Solution Contributor

- Integral member of team implementing university-wide single-sign-on solution.
- Developed key integration component for synchronizing authentication data across multiple Active Directory domains and Sun directory server.

Network Management System Developer

- Created robust network management system, bolstering resiliency, security, and recoverability of campus network.
- Improved efficiency of network operations team, with system remaining operational and effective as of 2022.

Education

Bachelor of Science in Computer Science | 2012

Stockton University, Pomona, NJ
Graduated Cum Laude