

Thomas E. Michaud

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<https://github.com/tmichaud/resume>

10+ years' experience in Software Development

Current Areas of Study: Docker, Kubernetes, Terraform, DevOps, Go, Java, Ansible

Skills Summary:

- Programming Languages: Go, Java, Python, SQL, Perl, Bash Shell
- Operating Systems: Unix, Linux, Windows
- Relational Databases: MySQL, Oracle, Sybase, MS-SQL
- CI/CD Servers: Jenkins, Gitlab Bamboo
- Orchestration/Provisioning Tools: Terraform, Cloudformation, Ansible
- Source Code Control: Git, SVN, CVS, ClearCase, SourceSafe, Vault, PVCS
- Other: HTML, CSS, XML, JUnit, Mockito, CURL, Postman

Steampunk, Senior DevOps Engineer → Technical Lead → Principle DevSecOps Engineer 08/2021-Present

Development Environment: AWS (Hybrid), GitLab, Jenkins, SonarQube, Nexus RM3, Nexus IQ

Originally brought in as a Senior DevOps Engineer, Thomas was quickly promoted to lead of the Platform team. This small team (2-4 individuals) was responsible for installation, upgrades and maintenance of the Commercial-off-the-Shelf (COTS) applications used by the customer. These applications included:

- Gitlab
- (CloudBees) Jenkins and Jenkins Community Edition
- SonarQube (for Static Code Analysis)
- Sonatype Nexus IQ (for Dependency Analysis, Static Code Analysis and SBOM creation)
- Sonatype Nexus Repository Manager

This team proposed, created, and executed and upgrade cadence for these applications. They wrote Terraform and Ansible scripts to automate installation processes, provide an Infrastructure as Code (IaC) traceability and blue/green deployments. This allowed the team to significantly decrease the amount of time needed to upgrade applications from months to hours, with one case involving a critical patch being upgrading from start to finish within 18 hours.

The team also supported a move from CloudBees Jenkins (on premises) to Jenkins Community Edition running on containers using AWS Fargate. This saved the client significant amounts, not only on licensing fees but also on a reduced on-premises server footprint (dozens of servers were decommissioned in the process)

The Platform team also proposed and outlined migration plans to move Nexus IQ and Nexus RM from the on premises data center to AWS.

Thomas was promoted to Technical Lead, assisting both the Platform team and the Pipeline team. The Pipeline team was a small team of 2-4 developers that were responsible for the development, advocacy and maintenance of the pipeline tools used by all development teams of the client. Specifically, this team was responsible for researching, evaluating, and developing pipelines to compile, analyze and deploy development teams code. Furthermore, they provided Proof-of-Concepts and supported pipelines to other applications such as LoadRunner, Fortify, and WebInspect.

In 2023, Thomas was promoted to Principle DevSecOps Engineer.

Imagine Believe Realize, LLC. Identity Engineer

06/2020-08/2021

Okta Certified Professional

Development Environment: AWS, Java, Okta, Ping, Docker, OAuth2, OIDC, SAML

Developed identity and authorization solutions in a variety of environments.

Notable items:

- Investigated Ping Federate using AWS, Docker, Ping DevOps.
- Developed Okta interface pages using AJAX and Okta APIs in Liferay, Docker, HTML, Bootstrap.

Imagine Believe Realize, LLC. DevOps Engineer

11/2019-06/2020

Development Environment: AWS, Liferay, Java, Ansible, Nexus, Git, Bamboo, Jira

Specialized in the development of pipelines to automate the building and delivery of software to QA and Production.

Notable items:

- Developed a notification program using Lambda, Python, SQS and SNS.

Lockheed Martin, DevOps (Contractor)

10/2018-11/2019

Development Environment: Ansible, OpenShift, Jenkins, VMWare, Satellite, Nexus, Docker

Worked on a program-enhancing team to explore the shift from legacy Windows applications to a Linux-OpenShift containerized approach.

Notable items:

- Setting up Jenkins pipelines in OpenShift for Development teams to ensure testing and automating delivery
- Developing Ansible scripts to configure both Linux and Windows boxes in both command-line Ansible and Ansible Tower

**Employment Gap – Sabbatical
Sabbatical with Family**

03/2018-10/2018

Accesso, Architecture Team Senior Developer

03/2016-03/2018

Development Environment: Java, MySQL, RESTful WS, DevOps, AWS, Jenkins, Docker

Creating DevOps solutions for the development teams including Continuous Integration, Continuous Deployment and Continuous Delivery.

Notable items:

- Migrated all Git repositories from locally hosted Gerrit to GitHub via Python and Bash scripts.
- Managed, standardized and maintained the build scripts for 75+ GitHub repositories
- Developed both Nightly and Continuous Integration scripts with GitHub protected branches with status checks. This included working with both development and management in standardizing our software control processes.
- Developed a release script that processed 75+ repos: automatically detecting, cutting, building, testing and deploying to QA. Development stack: Python, Bash, SSH and Jenkins
- Installed and configured a MySQL database on a RAM drive. This reduced automated testing speed by a factor of 600%.
- Migrated production jobs from individual configuration files to a centralized configuration database to simplify configuration.
- Created an AWS prototype solution of current application
- Researched new technologies including Tyk, Docker and OpenShift.

Accesso, Team Lead – Payments

12/2014-03/2016

Development Environment: Java, MySQL, C#, XML, Sockets

Implemented new payment processing solutions while maintaining and monitoring the single back-end e-commerce solution for web, kiosk and mobile platforms Point-of-Sale platforms. These new features and interfaces had to be within PCI compliance and standards. This system processes over \$1 billion (USD) in revenue every year.

Notable items:

- Led an initial team of 3 developers (eventually increased to 6). Deployed 6 new payment interfaces on time and within budget. Responsible for mentoring, design, and review of code.
- Developed code to process additional payment processors (Ogone and Acculynk). This allowed us to process additional card types including China Union Pay and JCB. Developed in Java, MySQL, XML.
- Developed code for new Point-of-Sale system to process payment processors including Shift4 and Verifone (UK and US) while interfacing with new vendors. Developed in Java, C#, MySQL.
- Design Patterns – recommended and implemented several design patterns including Factory, Dependency Injection and Chain-of-Responsibility to inject specific payment processor mechanisms into our Point-of-Sale system safely

and easily – reducing development time.

Accesso, Senior Developer

03/2013-12/2014

Development Environment: Java, MySQL, C#, XML, Sockets

Implemented new features to the back-end ticketing framework and providing mentoring to developers.

Notable Points:

- Evaluated and recommended simplified load techniques – such as automation, data migration and configuration management.
- Evaluated, recommended and implemented Unit Testing via JUnit testing framework and Continuous Integration Server (Jenkins). Evaluated and recommended Mockito and PowerMock.
- Recommended and implemented switching to Git source code control (in 2013).

Accesso, Developer

10/2011-03/2013

Development Environment: Java, MySQL, XML, Sockets

Implemented new features to the backend ticketing framework.

IBM, Programmer Analyst

10/2010-10/2011

Traveling Consultant

Development Environment: Java, Ant, Sybase, Netezza, Weblogic, Tibco BusinessWorks

Developed solutions for various clients from deploying Java Servlet Programs on WebLogic to developing custom functions in Netezza.

Education:

Masters of Science, Engineering Management, University of Central Florida, Orlando, Florida

Bachelors of Science, Computer Science, University of Central Florida, Orlando, Florida

Clearances: Formally held and currently eligible for Secret Clearance