

Rob Tompkins

DevOps Architect

Contact

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LinkedIn

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Skills

Infrastructure Management

Open Source

DevOps

GitOps

AWS

Leadership/Mentoring

Java

Kubernetes

Python

Docker

Go

- 10+ years Cloud, DevOps, Security, Software Engineering experience
- Open Source leader
- Apache Software Foundation VP for Jakarta EE Relations, Part owner of Apache Commons
- AWS DevOps, GitOps, IAM, and Networking expert
- Architected Capital One's software inventory system
- Architected and implemented Koalafi's and Naborforce's multi-tenant cloud/network design

Work History

2017-06 -

Current

Apache Software Foundation

Member

- VP, Jakarta EE Relationship Manager
- Member of Apache Software Foundation
- Apache Commons Committer/PMC Member
- Fixed various CVEs including upstream code to Apache Struts which fixed Equifax databreach vulnerability (commons-fileupload).
- Regularly working on and releasing codebases upstream of Android, Apache Tomcat, Apache Spark, Apache Hadoop, Apache Maven, and more.

2023-08 -

2024-01

Senior Systems Engineer (contractor for NASA)

Navteca, Remote

- Worked on the Fornax Project - a project to open source all Astrophysics Data from NASA's satellites as well as give compute power to the entire world for crowdsourcing research.
- Admin and AWS Engineer for the Fornax Project's production AWS account
- Designed and wrote CI/CD systems for the Fornax project

2022-12 -

2023-05

Principal Engineer

Naborforce, Richmond, VA

- Helped to manage all internal applications and ran the help desk
- Architected the network for the company.
- Lead the new design of the DevOps practices using

github, and ephemeral github runners to manage multiple AWS accounts

- Found \$100,000 in savings in GCloud Credits for Looker usage.

2022-05 -
2022-12

Lead Architect Open Source

Capital One, Richmond, VA

- Architected the Software Bill of Materials Solution across the entire company. Helping to remediate vulnerabilities (CVE's) for all projects at Capital One.
- Ambassador for Open Source development at Capital One.

2021-02 -
2022-05

Patch.com

Sr. DevOps Engineer , Remote

- IAM manager for all of Patch
- AWS Multi-Tenant Account Setup
- Head of all DevOps and Release Management for engineering team of 25 engineers
- Managing GitHub, CircleCI, AWS, GCloud, EKS, and Network.

2020-09 -
2022-11

Ambassador

All Things Open

- Conference Ambassador

2020-09 -
2021-02

Senior Consultant

Vertical Relevance

- AWS Cloud Architect (Network, IAM, Multi-Account Strategy)
- PCI Data Compliance Specialist

2019-05 -
2020-09

Staff Software Engineer

Koalafi (WestCreek Financial), Richmond, VA

- AWS architect and engineer (multi-tenant)
- Head Security Engineer
- CI/CD architect and engineer
- Chief dev-tools engineer

2014-06 -
2019-05

Capital One

Developer Tools, Lead Software Engineer , Richmond, VA

- Migrated Capital One from using the Oracle JDK to

the OpenJDK

- Started a 250 person InnerSourcing community of practice at Capital One with distinguished engineers from all corners of the company
- Standardized kubernetes deployment practices
- Lead direction for internal Java REST framework

2010-08 -
2014-06

CapTech Consulting

Consultant , Richmond, VA

- Standardized Virginia Worker's Compensation's legal docket system
- Performed business analytics for BonSecours health system
- Accelerated Lowes mobile platform with a Java RESTful orchestration tier
- Worked on the internal Java framework for Capital One

Education

2007-08 -
2009-06

University of South Carolina, Mathematics, M.S.

- Logic And Computation
- Worked in NP-Completeness.
- Published works on combinatorics on words.
- GPA: 3.8

2002-08 -
2007-05

Virginia Tech, Mathematics, B.S.

- Won the undergraduate prize for original mathematical research.
- Published works in combinatorics on words.
- GPA: 3.4

2001-08 -
2007-05

Virginia Tech, Engineering Science And Mechanics, B.S.

- Focus: Applied Physics and Biomechanics
- GPA: 3.4

Publications

Drost-Fromm and R. Tompkins, "Open Source Community Governance the Apache Way," in Computer, vol. 54, no. 4, pp. 70-75, April 2021, doi: 10.1109/MC.2021.3058023. <https://ieeexplore.ieee.org>

/document/9399942

C. R. Tompkins, The morphism with unstackable image words, preprint <https://arxiv.org/abs/1006.1273>

C. R. Tompkins, Latin square Thue-Morse sequences are overlap-free, *Discrete Mathematics and Theoretical Computer Science*, 9, 2007, 239-246

Certifications

2020-12

AWS Certified Solutions Architect