

# Rob Tompkins

DevOps Architect

## Contact

### Address

Richmond, VA 23226

### Phone

804-241-3104

### E-mail

chtompki@gmail.com

### LinkedIn

<https://www.linkedin.com/in/chtompki>

## 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.

2024-04 -  
Current

### Staff Consultant

*Vertical Relevance, Remote*

- Leading development of a Payments System for FIS, the banking core for over 500 banks.
- Architected the application design.
- Provided technical guidance for team members, fostering a culture of knowledge sharing and continuous improvement.

2023-05 -  
2024-03

### 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

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
- CICD 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

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## Education

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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 -

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

2007-05

- Focus: Applied Physics and Biomechanics
- GPA: 3.4

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## Publications

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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

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## Certifications

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2020-12

AWS Certified Solutions Architect