Rob Tompkins

Principal Engineer

Contact

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LinkedIn
https://www.linkedin.com/in/chtompki

Skills

Java

Excellent

Open Source

Excellent

DevOps

Excellent

AWS

Excellent

Diagnostics

Excellent

Public Speaking

Very Good

Spring / Tomcat

Very Good

- Apache Software Foundation Member. One of the owners of the Apache Commons Project.
- Apache VP for Jakarta EE Relations
- AWS DevOps, IAM, and Networking expert
- Helped in publishing CVE fixes to upstream code bases to Apache Struts in fixing Equifax databreach vulnerability (commons-fileupload).
- Regularly working on and releasing codebases upstream of Android, Apache Tomcat, Apache Spark, Apache Hadoop, Apache Maven, and more.
- Accelerated numerous Capital One projects in the CICD space, accommodating for faster production changes and larger revenue generation.
- Architected Capital One's software inventory system

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

2022-12 - 2023-05
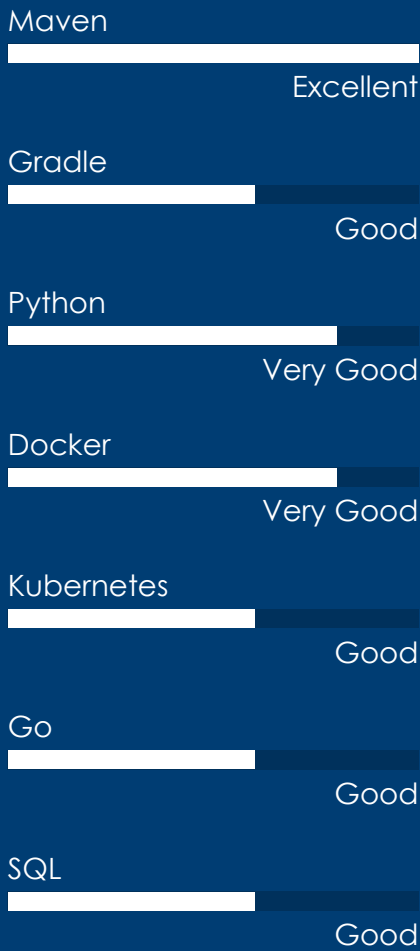
Principal Engineer

Naborforce, Richmond, VA
- Helped to manage all internal applications at the company.
- Ran the help desk
- Architected the network for the company.
- Lead the new design of the DevOps practices using github, and ephimeral github runners to manager the AWS tenant.
- Found $100,000 in savings in GCloud Credits for looker usage.

2022-05 - 2022-12

Lead Architect Open Source

Capital One
- Architected the Software Bill of Materials Solution across the entire company.
- Was an ambassador for Open Source development

Skills

Maven
Excellent

Gradle
Good

Python
Very Good

Docker
Very Good

Kubernetes
Good

Go
Good

SQL
Good

at Capital One.

2021-02 - 2022-05

Patch.com

Sr. DevOps Engineer

- 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

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

WestCreek

- AWS architect and engineer (multitenant)
- CICD architect and engineer
- Chief dev-tools engineer

2018-06 - 2019-05

Capital One

Developer Tools, Lead Software Engineer

- Migrated Capital One from using the Oracle JDK to the OpenJDK
- Started a 250 person InnerSoucing 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

- 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. (focus in 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