

Rob Tompkins

Staff Software Engineer

- Apache Software Foundation Member. One of the owners of the Apache Commons Project.
- AWS 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.

Experience

2017-06 - present	<div>Apache Software Foundation</div> <div>Apache Commons Project, Management Committee Member</div> <ul style="list-style-type: none">• Main release manager for Apache Commons• Fixed various CVEs• Accelerated the release pipeline from 4 hours to 40 minutes
2019-05 - present	<div>Staff Software Engineer</div> <div>WestCreek</div> <ul style="list-style-type: none">• AWS architect and engineer (multitenant)• CICD architect and engineer• Chief dev-tools engineer
2016-09 - 2017-06	<div>Apache Software Foundation</div> <div>Apache Commons Project, Committer</div> <ul style="list-style-type: none">• Introduced https://github.com/apache/commons-text, including speaking at ApacheCon '17 on the subject.• Contributed numerous patches• Helped fix a serialization CVE with Apache Commons FileUpload
2018-06 - 2019-05	<div>Capital One</div> <div>Developer Tools, Lead Software Engineer</div> <ul style="list-style-type: none">• 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
2017-07 - 2018-06	<div>Capital One</div> <div>CreditWise, Lead Software Engineer</div> <ul style="list-style-type: none">• Accelerated platform delivery• Migrated database from a datacenter to AWS• Established multi-region resiliency• Redesigned DevOps tooling
2013-07 - 2017-07	<div>Capital One</div> <div>Card Servicing, Software Engineer</div> <ul style="list-style-type: none">• Lead support for all of the card servicing environments both production and non-production• Helped lead the migration from the Capital One datacenter to AWS for the Card Servicing website• Triaged and debugged numerous high severity incidents

Personal Info

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Citizenship
U.S. Citizen

Skills

Java	<div><div></div><div></div><div></div><div></div><div></div></div>
Open Source	<div><div></div><div></div><div></div><div></div><div></div></div>
DevOps	<div><div></div><div></div><div></div><div></div><div></div></div>
AWS	<div><div></div><div></div><div></div><div></div><div></div></div>
Diagnostics	<div><div></div><div></div><div></div><div></div><div></div></div>
Public Speaking	<div><div></div><div></div><div></div><div></div><div></div></div>
Spring / Tomcat	<div><div></div><div></div><div></div><div></div><div></div></div>
Maven	<div><div></div><div></div><div></div><div></div><div></div></div>
Gradle	<div><div></div><div></div><div></div><div></div><div></div></div>
Python	<div><div></div><div></div><div></div><div></div><div></div></div>
Docker	<div><div></div><div></div><div></div><div></div><div></div></div>
Kubernetes	<div><div></div><div></div><div></div><div></div><div></div></div>
Go	<div><div></div><div></div><div></div><div></div><div></div></div>

2010-08 - 2014-06	CapTech Consulting <i>Consultant</i> <ul style="list-style-type: none">Standardized Virginia Worker's Compensation's legal docket systemPerformed business analytics for BonSecours health systemAccelerated Lowes mobile platform with a Java RESTful orchestration tierWorked on the internal Java framework for Capital One
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Education

2007-08 - 2009-06	University of South Carolina, Mathematics, M.S. (focus in Logic and Computation) <ul style="list-style-type: none">Worked in NP-Completeness.Published works on combinatorics on words.GPA: 3.8
2002-08 - 2007-05	Virginia Tech, Mathematics, B.S. <ul style="list-style-type: none">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. <ul style="list-style-type: none">Focus: Applied Physics and BiomechanicsGPA: 3.4

Talks

2019-09	Apache Commons Beyond StringUtils - ApacheCon '19
2019-09	Apache Commons State of the Union - ApacheCon '19
2019-03	From no OSS contributions to Apache PMC in 16 months. - Apache DC Roadshow
2018-10	Getting Started with Open Source (https://chtompki.github.io/ getting-started-with-oss/#/) - Presented to the Richmond Software Engineering Users Group
2018-09	Getting Started with Open Source (https://chtompki.github.io/ getting-started-with-oss/#/) - Presented Capital One's SECON Internal Conference
2017-05	Introducing Apache Commons Text (https://chtompki.github.io/ apachecon2017-text-presentation/#/) - ApacheCon

Publications

2010-06	C. R. Tompkins, The morphism with unstackable image words, preprint https://arxiv.org/abs/1006.1273
2007	C. R. Tompkins, Latin square Thue-Morse sequences are overlap-free, Discrete Mathematics and Theoretical Computer Science, 9, 2007, 239-246

