

# 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

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|-------------------|--|
| 2017-06 - present | <div>Apache Software Foundation</div> <div>Member</div> <ul style="list-style-type: none"><li>• Jakarta EE Relationship Manager</li><li>• Member of Apache Software Foundation</li><li>• Apache Commons Committer/PMC Member</li><li>• Fixed various CVEs</li><li>• Accelerated the release pipeline from 4 hours to 40 minutes</li></ul>  |
| 2020-07 - present | <div>Senior DevOps Engineer</div> <div>StreetLightData</div>   |
| 2019-05 - 2020-07 | <div>Staff Software Engineer</div> <div>WestCreek</div> <ul style="list-style-type: none"><li>• AWS architect and engineer (multitenant)</li><li>• CICD architect and engineer</li><li>• Chief dev-tools engineer</li></ul>  |
| 2016-09 - 2017-06 | <div>Apache Software Foundation</div> <div>Apache Commons Project, Committer</div> <ul style="list-style-type: none"><li>• Introduced <a href="https://github.com/apache/commons-text">https://github.com/apache/commons-text</a>, including speaking at ApacheCon '17 on the subject.</li><li>• Contributed numerous patches</li><li>• Helped fix a serialization CVE with Apache Commons FileUpload</li></ul>  |
| 2018-06 - 2019-05 | <div>Capital One</div> <div>Developer Tools, Lead Software Engineer</div> <ul style="list-style-type: none"><li>• Migrated Capital One from using the Oracle JDK to the OpenJDK</li><li>• Started a 250 person InnerSoucing community of practice at Capital One with distinguished engineers from all corners of the company</li><li>• Standardized kubernetes deployment practices</li><li>• Lead direction for internal Java REST framework</li></ul> |
| 2017-07 - 2018-06 | <div>Capital One</div> <div>CreditWise, Lead Software Engineer</div> <ul style="list-style-type: none"><li>• Accelerated platform delivery</li><li>• Migrated database from a datacenter to AWS</li><li>• Established multi-region resiliency</li><li>• Redesigned DevOps tooling</li></ul>  |
| 2013-07 - 2017-07 | <div>Capital One</div> <div>Card Servicing, Software Engineer</div> <ul style="list-style-type: none"><li>• Lead support for all of the card servicing environments both production and</li></ul>  |

## Personal Info

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| GitHub  |
| <a href="https://github.com/chtompki">https://github.com/chtompki</a>                   |
| LinkedIn  |
| <a href="https://www.linkedin.com/in/chtompki">https://www.linkedin.com/in/chtompki</a> |
| Citizenship   |
| U.S. Citizen  |

## Skills

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|-----------------|--|
| 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> |
| SQL             | <div><div></div><div></div><div></div><div></div><div></div></div> |

- 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

**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

**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