Pushkar Joglekar

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# Summary

Pushkar Joglekar is a *Sr. Security Engineer* currently working at [VMware Tanzu](https://tanzu.vmware.com/tanzu/) with the goal to “Make *Kubernetes* Secure for All”. He is a subject matter expert in Cloud Native Security and demonstrates it with community contributions as a Tech Lead for [CNCF Security - TAG](#cncf-cloud-native-computing-foundation) and as the [Kubernetes SIG Security Tooling](#kubernetes) sub-project Lead.

During the last couple of years, he has written the security chapters in Nigel Poulton’s [“The Kubernetes Book”](#publications) which he looks forward to updating every year. Prior to this current role, he architected highly secure massive Kubernetes deployments at [Visa](https://usa.visa.com) (end user), that processed millions of transactions every day. He is also the co-creator of award-winning container runtime security tool: [MASHUP](#awards)

# Current Affiliations

### [CNCF (Cloud Native Computing Foundation)](https://www.cncf.io/)

* [Among Top 50 contributors worldwide](https://all.devstats.cncf.io/d/9/developer-activity-counts-by-repository-group-table?orgId=1&var-period_name=Last%20year&var-metric=contributions&var-repogroup_name=CNCF&var-country_name=All) (Top 3%) in the last 12 months
* [TAG (Technical Advisory Group) Security Tech Lead](https://github.com/cncf/tag-security#stag-members)
* [Program Committee Member](https://www.cncf.io/blog/2021/08/04/inside-the-numbers-the-kubecon-cloudnativecon-selection-process-for-kubecon-cloudnativecon-north-america-2021/)
  + [KubeCon + CloudNativeCon North America 2021](https://www.credly.com/badges/2dc7336e-ad39-4a1c-a6f9-e88012d6d1af/public_url)

### [Kubernetes](https://kubernetes.io/)

* [Among Top 200 contributors worldwide](https://k8s.devstats.cncf.io/d/13/developer-activity-counts-by-repository-group?orgId=1&var-period_name=Last%20year&var-metric=contributions&var-repogroup_name=Kubernetes&var-repo_name=kubernetes%2Fkubernetes&var-country_name=All) (Top 7%) in the last 12 months
* [SIG (Special Interest Group) Security:](https://github.com/kubernetes/community/tree/master/sig-security) [Tooling Sub-Project Lead](https://github.com/kubernetes/community/tree/master/sig-security)

### [PCI (Payment Card Industry)](https://www.pcisecuritystandards.org/)

* [SIG (Special Interest Group): Best Practices for Container Orchestration](https://blog.pcisecuritystandards.org/pci-ssc-announces-2021-special-interest-group-election-results): Contributed to industry standard guidance on security cloud native environments that are relevant to Payment Transactions Processing Systems

# Patents

* [(5 Citations)](https://patents.google.com/patent/WO2020060537A1#patentCitations) [Microservice adaptive security hardening](https://patents.google.com/patent/WO2020060537A1)
* [(11 Citations)](https://patents.google.com/patent/WO2019013771A1#patentCitations) [Systems and Methods for generating behavior profiles for new entities](https://patents.google.com/patent/WO2019013771A1)
* [(5 Citations)](https://patents.google.com/patent/WO2019213086A1#patentCitations) [Self-learning alerting and anomaly detection in monitoring systems](https://patents.google.com/patent/WO2019213086A1)
* [(5 Citations)](https://patents.google.com/patent/WO2019194787A1#patentCitations) [Real-time entity anomaly detection](https://patents.google.com/patent/WO2019194787A1)
* [(5 Citations)](https://patents.google.com/patent/WO2020005263A1#patentCitations) [Systems and methods to secure api platforms](https://patents.google.com/patent/WO2020005263A1)
* [(6 Citations)](https://patents.google.com/patent/WO2020040776A1#patentCitations) [Proactive defense of untrustworthy machine learning system](https://patents.google.com/patent/WO2020040776A1)
* [(5 Citations)](https://patents.google.com/patent/WO2020040777A1#patentCitations) [Model shift prevention through machine learning](https://patents.google.com/patent/WO2020040777A1)
* [Systems, Methods, and Computer Program Products for Authorizing a Transaction](https://patents.google.com/patent/US20210065194A1)

# Awards

* [Kubernetes Community Awards 2021: Security](https://www.kubernetes.dev/community/awards/2021/#security)
* [CSO50 2019: Next Generation Security Product Award](https://usa.visa.com/visa-everywhere/blog/bdp/2019/11/14/safety-in-numbers-1573775010350.html)
* [CMU INI 2015: Outstanding Student Service Award for Teaching Assistant](https://www.cmu.edu/ini/news/2015/awards.html)

# Media Coverage

* [VMware Open Source Blog: Upstream: Jump on In, the Water’s Fine!, Dec. 2021](https://blogs.vmware.com/opensource/2021/12/09/upstream-jump-on-in-the-waters-fine/)
* [Skedler: Navigating the messy world of (too many) CVEs, Nov. 2021](https://www.skedler.com/blog/common-vulnerabilities-and-exposures)
* [Storychief: Catch up with Security SIG from KubeCon, Oct. 2021](https://solutions.storychief.io/catch-up-with-the-security-sig-from-kubecon)
* [CSOOnline: How Visa built its own container security solution, March 2020](https://www.csoonline.com/article/3529974/how-visa-built-its-own-container-security-solution.html)
* [ItOpsTimes: Securing Kubernetes with STRIDE, Nov. 2019](https://www.itopstimes.com/itsec/kubecon-securing-kubernetes-with-stride/)

# Publications

* [The Kubernetes Book, 2019-Present](https://www.amazon.com/dp/1521823634), both security chapters
  + 650+ Reviews with average rating of 4.5/5
  + Since contributing to this book the rating increased from 4.2 to 4.5
* Kubernetes Blog posts:
  + [A Closer Look at NSA/CISA Kubernetes Hardening Guidance, Oct. 2021](https://kubernetes.io/blog/2021/10/05/nsa-cisa-kubernetes-hardening-guidance/)
  + [Cloud native security for your clusters, Nov. 2020](https://kubernetes.io/blog/2020/11/18/cloud-native-security-for-your-clusters)
* Reference Papers:
  + [Cloud Native Security Whitepaper v1.0, Nov. 2020](https://github.com/cncf/sig-security/blob/master/security-whitepaper/CNCF_cloud-native-security-whitepaper-Nov2020.pdf)
  + [Cloud Native Security Lexicon, Aug. 2020](https://github.com/cncf/tag-security/blob/main/security-lexicon/cloud-native-security-lexicon.md)

# Speaking engagements

* [Thank God Its Kubernetes](https://www.youtube.com/playlist?list=PL7bmigfV0EqQzxcNpmcdTJ9eFRPBe-iZa)
  + [Episode 174 “Verifying Signed Images with Connaisseur”, Nov. 2021](https://youtu.be/LFAmi39CBb4)
  + [Episode 171 “Pod Security Problems”, Oct. 2021](https://youtu.be/Vk1ARLbAcVc)
* [KubeCon + CloudNativeCon](https://www.cncf.io/kubecon-cloudnativecon-events/) (12-14% acceptance criteria)
  + [Keeping Up with the CVEs: How to Find a Needle in a Haystack?, Oct 2021](https://kccncna2021.sched.com/event/lV48)
    - [Youtube Recording](https://youtu.be/2cvWmY4xvLU)
  + [Security Through Transparency: Kubernetes SIG Security Update, Oct 2021](https://kccncna2021.sched.com/event/lV7Q)
    - [Youtube Recording](https://youtu.be/O5Wy7zSigOU)
  + [Security Beyond Buzzwords: How to Secure Kubernetes with Empathy?, Nov 2019](https://kccncna19.sched.com/event/Uad6/security-beyond-buzzwords-how-to-secure-kubernetes-with-empathy-pushkar-joglekar-visa)
* [Kubernetes Security Bangalore Meetup, July 2021](https://www.meetup.com/kubernetes-openshift-India-Meetup/)
  + [Youtube Recording](https://youtu.be/W6YQNuJsFqU?t=2491)
  + [Meetup Event](https://www.meetup.com/kubernetes-openshift-India-Meetup/events/279192256)
  + [Slides](https://github.com/PushkarJ/pushkarj.github.io/blob/master/talks/k8s-meetup-blr-2021-htmfawoyst.pdf)