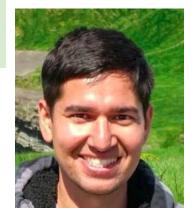# Pankaj Khatkar

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https://github.com/khatkar

Team player, functional programmer. I've shipped products from start to finish, collaborated on system design and deployments. Love to help, enjoy skiing, volleyball and running. Phd dropout. Authorized to work in USA (sponsorship required). Open to relocation in USA, EU.

TechStack:
    Scala, Java, SpringBoot, Docker, Travis CI, SaltStack, AWS, MySQL, MongoDB, Redis, ElasticSearch, Kafka, Play, Akka, Prometheus, Grafana

Work

Software Engineer, *RiskSense Inc.*, USA | Nov 2014 - present
    Reduced testing and deployment time on Travis CI by 70%. Designed and delivered REST API for all backend services. Created API metrics monitor. Managed Dockers, automated docker push via Travis CI, managed services across development and deployment platforms with SaltStack and AWS.

Network Security Research Intern, *RiskSense Inc.* (formerly CAaNES LLC), USA | May - Aug 2014
    Developed a web application for visual analysis of firewall rule anomalies using Java, Scala, D3JS.

Graduate Research/Teaching Associate, *Arizona State University*, USA | Aug 2012 - May 2014
    Enabled collaborative learning by developing the virtual laboratory (vLab) system, allowing students to perform network experiments remotely. Explored network security through OpenFlow.

Web developer, *Arizona State University*, USA | Feb - Aug 2012
    Designed, developed and maintained websites with Drupal, HTML, CSS3, PHP and JavaScript. Learned web database migration, and creating/restoring backups using MySQL and DirectAdmin.

Freelance Web application developer, *D4 Hotels*, Dublin, Ireland | May - July 2011

Education

Masters in Computer Science, CGPA **3.75**, Arizona State University, USA | Dec 2014
Bachelor's in Computer Engineering, University of Mumbai, India | May 2010

Open source software

Network address manipulation library (Scala) https://github.com/khatkar/ipaddr
Flyway migrations for MongoDb (Java) https://github.com/risksense/flyway

Publications & Patent

- C. Chung, **P. Khatkar**, T. Xing, J. Lee, D. Huang, "NICE: Network Intrusion Detection and Countermeasure sElection in Virtual Network Systems," IEEE Transactions on Dependable and Secure Computing 2013.
- C. Chung, J. Cui, **P. Khatkar**, D. Huang, "Non-intrusive process-based monitoring system to mitigate and prevent VM vulnerability explorations," IEEE CollaborateCom 2013.
- T. Xing, C. Chung, **P. Khatkar**, D. Huang, "SnortFlow: OpenFlow-based Intrusion Prevention System in Cloud Environment," Second GENI Research and Educational Experiment Workshop (GREE) 2013.
- "Selection of a Countermeasure", U.S Patent 9160761, Issued Oct 13, 2015.