Kelly Nicole Kaoudis

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EXPERIENCE

TWITTER (Data Products) Boulder, CO

Software Engineer II, Data & Enterprise (DES) infrastructure, January 2017 - present

- Designing cross-team integration of developer.twitter.com application flow, access control, internal ticketing system, and Service Cloud for improved developer.twitter.com high-risk developer application vetting and data flow, working with Product, Service Cloud team, and ticketing system team
- Implementing compliance features for EU General Data Protection Regulation
- Writing Twitter stack tutorial module for new employees learning to use Twitter's OAUTH 1.0A and OAUTH 2 implementations
- Designed and helped build daily financial reporting service for developer.twitter.com
- Helped design and build subscription billing and invoicing system connecting Recurly, Sabrix, and Cybersource in Scala with Finagle, Thrift with ES6 payment page for developer.twitter.com and enterprise data products

Software Engineer I, Data Products, February 2016 - January 2017

- Designed and built load testing tool in Scala with Akka, Finagle, which is run bi-weekly on full Data Products microservice architecture
- Migrated Java apps from legacy Nagios + Ganglia config to Twitter Observability so metrics from all services owned by org could be visualized together
- Ensured integrity of staging env for end-to-end testing and comparison to production; coordinated bi-weekly Data Products prod deploys

INTEL Longmont, CO

Graduate software engineering intern, SSD device drivers, May 2015 - August 2015

- Backported Linux NVMe driver for Red Hat Enterprise Linux versions 6.2 - 7.1
- Built developer tools for testing the Linux NVMe driver and hardware in C
- Contributed to Linux NVMe driver
- Updated manpages, wrote bash and zsh auto-completions for open source nvme-cli userspace utility for interfacing with NVMe hardware via the driver

DEPT. OF COMPUTER SCIENCE University of Colorado Boulder

Graduate research assistant, NGN group, August 2015 - December 2015

- Studied distributed system design, decentralized networking, network protocols, network security, formal verification, cryptography

Graduate teaching assistant, August 2013 - May 2015

- Created course materials, lectured during regular courses as required
- Taught and graded multiple labs per week, one course per semester

SANDIA NATIONAL LABS (Center for Cyber Defenders) Albuquerque, NM

Graduate software engineering intern, May 2014 - December 2014

- Added fine-grained dataflow-monitoring to massive distributed streaming data

LANGUAGES

Scala, Java, Python, C, shell scripting, Javascript (ES6, React), Lua, Ruby

ETC.

*nix, JVM, mySQL, thrift, Make, LaTeX, Jenkins, Maven, Pants, TCP/IP, TLS, gdb, Valgrind, IDA

EDUCATION

UNIVERSITY OF COLORADO BOULDER

December 2015

- Master of Science, Computer Science

May 2013

- Bachelor of Science, Journalism
- Bachelor of Arts, French language
- Minor, Computer Science

TALKS & PUBLICATIONS

Scaling Validation and Quality of Streaming Data Products at Twitter
bit.ly/2CiLm1T
Strange Loop 2017

Augmenting Cloud Architectures to Support Decentralized Applications
bit.ly/2lihaKO
M. Coughlin, K. Kaoudis, E. Keller
IEEE Integrated Management 2017

PERSONAL PROJECTS

TreeFill: distributed rate limiting
https://bit.ly/2NS3xxy
(with Brian Dupras and Michael Hirsch)

SPOKEN LANGUAGES

French (conversational)
Japanese (beginning)
Spanish (beginning)

framework in C and C++
- Performed dimensionality reduction and clustering on malware datasets with 100k - 1 million entries with scikit-learn in Python; wrote interactive d3.js vis

TUFO LAB University of Colorado Boulder

System administrator, January 2014 - May 2014

- Helped prototype Biofrontiers Institute S10 datacenter configuration
- Helped benchmark cluster prototypes with STREAM, high performance LINPACK, bonnie++, iperf, qperf, sample bioinformatics workloads

ARM San Jose, CA

Software engineering intern, Media Processing Division, May 2013 - August 2013

- Built small cross-compiler in Lua and C++ for end-user translation of computer vision code from an in-house serial (C++) computer vision API to OpenCL