

ALEXANDER TSANKOV

SUMMARY

Technical interests:

- System automation.
- Security infrastructure.
- All things "DevOps."

Passionate for programming and fascinated by large-scale system orchestration.

CONTACT

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EDUCATION

University of Colorado,
Boulder
B.A. Computer Science,
Philosophy 2016
GPA: 3.63/4.00

SKILLS

PROGRAMMING

Python
Go
Java
C
BroScript
Javascript

WEB DEVELOPMENT

Ruby on Rails
D3 Visualization
NoSQL (Mongo, Rethink)
SQL (PostgreSQL)
Google App Engine
Python Tornado

SYSTEMS

Bash
*nix Systems
Intrusion Detection Systems (IDS)
Continuous Integration
Process Automation
Juniper Firewalls

EMPLOYMENT

Google
[DevOps Apprentice](#)

Denver, Colorado
Sep/2015 - Current

Supporting the Google Global Cache content delivery network (CDN).

- Developing products for greater system automation utilizing workflow engines and machine learning.
- Building software to better collect and analyze remote device statistics.
- Maintaining connectivity with international ISPs.

CU Boulder's NGN Laboratory
[Student Researcher](#)

Boulder, Colorado
2014 - 2016

Supported Prof. Keller and his "Next Generation Networks" lab in the development of:

- A software defined network (SDN) controller, specifically its integration with the Bro intrusion detection system (IDS).
- A continuous integration framework for Bro IDS which I presented at an Association for Computing Machinery (CODASPY-2016) workshop demonstrating its potential as a virtualized network function.

Workiva
[Summer Intern](#)

Boulder, Colorado
Jun/2015 - Aug/2015

Worked to create scalable RESTful microservices to handle mail notifications and analytics.

- Services were written in Go and deployed to Google App Engine.
- Developed a dynamic HTML templating structure.
- Crafted REST requests to internal and external APIs.

ioSemantics
[Summer Intern](#)

Golden, Colorado
Jun/2014 - Aug/2014

Worked on a project to integrate an AI language parser with a custom IDE.

- Developed in Java with the Eclipse RCP framework. I focused on UI creation, data visualization with SWT graphics, and general UX.
- Exposed to script automation, and code documentation practices in an Agile start-up environment.

University of Colorado, Boulder
[Network Security Office, Student Assistant](#)

Boulder, Colorado
2013 - 2015

Worked to secure a 50,000+ host network and manage its security infrastructure.

- Managed *nix servers and work stations, Juniper firewalls, and Cisco security appliances.
- Developed scripts for the campus' Bro intrusion detection system in a variety of high-security contexts.

[ITL Laboratory, Student Assistant Administrator](#)

Boulder, Colorado
2012 - 2013

Helped to maintain and build a large lab for 100+ users with a variety of different lab equipment hosts.

- Built custom install images to deploy to workstations.
- Supported local Windows web and database servers.

INDEPENDENT PROJECTS

Students for Instructional Improvement

Co-created and currently maintain an open-source Ruby on Rails site (2,000+ users/month) that summarizes and visualizes CU Boulder professor evaluation statistics. This project involves:

- Scraping and cleaning large amounts of data.
- Building a robust, and fast back end.
- Managing deployment in testing and production environments.

Lead a team of six seniors developing a high performance student feedback system using Python Tornado and RethinkDB.

Hackathons

PenApps XIII - Machine learning models to make predictions about blood glucose levels based on activity data.

Money20/20 - Proof of concept phishing incentivization system that tied responses directly to monetary transactions.

Coinorado - SMS-based Bitcoin transfer system for interaction with the blockchain from low-end feature phones.

AWARDS AND RECOGNITIONS

Invited to Present at NFV World Congress - Association for Computing Machinery

Apr/2016

Matthew Monaco; Alex Tsankov; Eric Keller. *Taking the Surprise out of Changes to a Bro Setup*. 6th ACM Conference on Data and Applications Security and Privacy (CODASPY-2016). New Orleans, LA.

DePauw Undergraduate Ethics Symposium - Prindle Institute of Ethics, DePauw University

2015

Invited to discuss and present *The Ethical Automaton*, a paper about the ethical issues surrounding autonomous vehicles.

Cisco Certified Network Associate (CCNA)

2010

Inactive

Guinness Certified "Perfect Pint Pourer"