

Alexander Tsankov

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Keywords: SDN, Bro, IDS, Big Data, Automation, Scripting, Network Tools

Objective

To blend my love of computers with my passion for the humanities – all while playing with as many new technologies as possible in the process.

University of Colorado Boulder - Senior, Graduating May 2016 – GPA 3.61/4.00

- Computer Science Major, School of Arts and Sciences
- Philosophy Major, School of Arts and Sciences

Professional Experience

- **Operation Apprentice, Google** 2015 - Present. Supporting the needs of Google's infrastructure by both helping to identify and resolve problems, and improving on internal and external utilities and software. My work interfaces directly with a variety of partners to ensure reliability and accessibility of Google's content delivery network (CDN) to end users.
- **Intern, Workiva** Summer 2015. Working to create large scale Restful Go applications to handle mail notifications. Applications are running on Google App Engine with Datastore back-end. Other parts of application involves dynamic HTML templating and restful requests to other APIs both internal and external.
- **Lab Assistant for Prof. Eric Keller** 2014 - 2015. Worked with Prof. Keller on the "yanc" network controller and SDN technology, specifically [integration with BRO IDS](#). I also did research on applying Test Driven Development practices to Bro script development
- **Intern, ioSemantics** Summer 2014. Worked on project to integrate AI language parser with custom IDE designed using Java in the Eclipse RCP framework. Focused on GUI design and programming, data visualization, script automation, SWT graphics, and code documentation in an agile start-up environment.
- **Student Assistant, OIT Network Security** 2013 - 2015. Working to secure campus network and infrastructure. This includes working with *nix servers and work stations, Juniper firewalls, Cisco security appliances, and intrusion detection systems.

Professional Certifications and Training

- Cisco Certified Network Associate (CCNA) - Inactive
- CompTIA Network Plus Certification (Network+)

Technical Experience

- Proficiency in [C](#), Java, Bash, Go, [Python](#), BroScript, [Javascript](#), \LaTeX
- *nix servers: Debian-based (Ubuntu), RHEL
- Bro Intrusion Detection System
- Cisco IOS devices: Routers and Switches
- Web Frameworks: Node Express, [Ruby on Rails](#), [Python Flask](#)
- Tableau, Javascript D3 and Highcharts, Splunk and other big data visualization platforms.
- Database systems, relational ([MySQL](#)) and NoSql (MongoDB)

Honors and Achievements

- Engineering Dean's List – 2012
- Inducted into Tau Beta Pi Engineering National Honor Society
- Engineering Projects Class – "Best in Section" Award Winner
- Certified Guinness "Perfect Pint Pourer" - Guinness Brewery, Dublin