

Jonathan Sun

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<http://about.jonsun.me/>

Work Experience

Google - Sunnyvale, CA

Software Engineer, September 2016—Present

Google Cloud Infrastructure (Networking Team)

- Working on infrastructure-level networking products for Google Compute Engine, focusing on hybrid cloud technologies.
- Designing and implementing global-scale control planes for Google’s software defined networking (SDN) backbone.
- Collaborating with product managers and UX teams to design customer-facing APIs, client-side tools for cluster/network management, and paradigms for highly-reliable hybrid cloud network topologies.
- **Core projects:** [VPC Networking](#), [Cloud Interconnect](#), [Cloud Router](#)
- **Secondary projects:** [Cloud VPN](#), [Cloud Firewalls](#), [Cloud SDK](#)

Google - Mountain View, CA

Graduate Intern, Summer 2015

Payments Analytics (Data Warehouse Team)

- Improved validation procedures for Google Payments data warehouse as part of a major infrastructure migration. Applied sharding algorithms to improve query processing efficiency for distributed OLAP queries used by accounting teams.

Amazon Web Services - Seattle, WA

Graduate Intern, Summer 2014

Amazon Web Services Anti-DDoS

- Designed and implemented an internal web service to collect network forensic data during DDoS attacks on Amazon Web Services. Network engineers use the service for retrospective analysis and DDoS detection algorithm design.

UC Santa Barbara - Santa Barbara, CA

Teaching Assistant, Fall 2013—Spring 2016

Skills

Strong with:

- Java, C++, Python
- Cloud Computing, Networking
- Reliability Engineering
- Data Structures, Algorithms
- Object-Oriented Design

Familiar with:

- C, Shell
- Distributed Systems
- Git, Perforce, Subversion
- Linux, Unix, Android
- JUnit, Guice, Spring

Education

UC Santa Barbara

Computer Science MS

Graduated: September 2016

GPA: 3.8

Lopker Fellowship Recipient

Research Interests:

- Computational Geometry
- Graph Theory
- Computational Neuroscience

University of Southern California

Computer Science BS, Math BA

Graduated: May 2013

GPA: 3.6

Activities/Organizations:

- ACM Mentor & Board Member
- ICPC Regional Team Member
- USC Men’s Rowing Team

Publications

Jonathan Sun, Matthew Cieslak, Scott Grafton, Subhash Suri. (2015). *A Reeb Graph Approach to Tractography*. ACM SigSpatial Conference (GIS 2015).