

Jonathan Sun

Contact:

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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 customer-facing APIs and tools for cluster and network management and reliability engineering.
- Products worked on include: [Cloud Interconnect](#), [Cloud VPC](#), [Cloud Router](#).

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 automated 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**

Courses Taught:

- CS24 – Problem Solving with Computers II (TA)
- CS32 – Object-Oriented Design and Implementation (TA)
- CS40 – Foundations of Computer Science (TA)
- CS130b – Data Structures and Algorithms II (TA)

Skills

Strong with:

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

Familiar with:

- C, Shell
- Concurrent Programming
- Git, Perforce, Subversion
- Linux, Unix, Android
- JUnit Testing, 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).