# Atyansh Jaiswal

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# **Work Experience**

### Facebook — Privacy Infrastructure

Menlo Park, CA

August 2017 - Present

- Focusing on detecting and mitigating large scale scraping attacks on Facebook
- Build systems to observe, classify, and mitigate botted activity
- · Understanding attacker intent, measuring signals, deducing patterns, and engineering features out of them
- Primarily using Haskell, Hack, and Python

Facebook — Ads Signals Menlo Park, CA

SOFTWARE ENGINEERING INTERN

- Integrated real time aggregations for conversion optimization
- Worked on C++ backend to ingest data and perform aggregations
- Implemented PHP/HACK endpoint to process API calls
- Created a React JS based UI to create aggregation rules
- Wrote a thrift service to send conversion data between PHP and C++ backend

#### Facebook — Ads Infrastructure

Menlo Park, CA

Fall 2015

Summer 2016

SOFTWARE ENGINEERING INTERN

- Created a real time storage solution for an in-house object delivery distributed system in C++
- · Improved network performance by implementing a more efficient serialization method
- Increased storage efficiency of connection objects in HDFS by 30%
- Used an in house real time key value storage system to deliver connection objects

Google San Bruno, CA

SOFTWARE ENGINEERING INTERN

Summer 2015

- Migrated YouTube V3 API from Java to Python backend
- Improved safety of video fetches across the YouTube backend
- Added improved permission validation support for video fetch requests

ViaSat Carlsbad, CA

SOFTWARE ENGINEERING INTERN

Summer 2014

- Created a Page Load Metrics Collection and Analysis Framework
- Developed Firefox extension in **JavaScript** to measure web page load times
- Set up **Python Flask** server with **nginx** to ingest page load times
- Set up **ElasticSearch** and **Hadoop** storage systems for page load time analysis

# Projects\_\_\_\_\_

# **Saber: Delegating Web Security to Browser**

(Paper)

**GRADUATE RESEARCHER** 

- Created a prototype Fetch API that delegates web requests to Google Chrome
- · Provide secure TLS connections to client applications without requiring any security expertise
- · Also provide strict transport security, public-key pinning, and revocation checking for free

**Multiplayer Brawler** (Video Game)

GAME DEVELOPER

- Created a 3D online multiplayer brawler in C++
- Built network engine using Boost Asio, server-client communication using Google protobufs, and physics engine using Bullet

# Education\_

## **BS/MS in Computer Science**

San Diego, CA

University of California, San Diego

2012-2017

2016-2017

- · Relevant Coursework Software Engineering, Computer Security, Programming Language Theory, Compiler Theory, Operating Systems and Networking, Cryptography, Networked and Distributed Systems
- Thesis— Analyzing and addressing the security issues of non-browser web-connected applications

**Teaching Assistant** San Diego, CA

UNIVERSITY OF CALIFORNIA, SAN DIEGO

- Intro to Computer Security—Control flow hijacking, MITM attacks, XSS, CSRF, JIT Spraying, SSL stripping, privacy
- Programming Language Theory—Haskell, lambda calculus, type inference, monads