Atyansh Jaiswal

SOFTWARE ENGINEER · SECURITY RESEARCHER

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Work Experience

Metα − Privacy Infrastructure

Menlo Park, CA

SENIOR SOFTWARE ENGINEER

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
- Additionally part of the **Privacy IMOC** oncall rotation where I'm responsible for coordinating response for privacy incidents at the company and postmortem reviews.

Meta — Messenger Privacy

Menlo Park, CA

SOFTWARE ENGINEER

March 2020 - November 2021

- · Building infrastructure to make Messenger clients more secure and compliant with privacy regulations
- Created a differential privacy focused logging framework for both server and **iOS** client
- Built a real time engine to surface consent flows on mobile clients
- Created scripts for proper ownership classification for entire Messenger codebase
- · Pioneered a new Messenger Security team focused on detecting and mitigating client side vulnerabilities
- · Primarily using Hack, C, and Python

Meta − 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

Menlo Park, CA

SOFTWARE ENGINEERING INTERN

Fall 2015

Summer 2016

- 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

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_

Teaching Assistant

BS/MS in Computer Science

San Diego, CA

San Diego, CA

University of California, San Diego

2012-2017

- 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

University of California, San Diego 2016-2017

• 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