Atyansh Jaiswal

SOFTWARE ENGINEER · SECURITY RESEARCHER

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Work Experience

Facebook — Ads Signals

Menlo Park, CA

SOFTWARE ENGINEERING INTERN

Summer 2016

- 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

SOFTWARE ENGINEERING INTERN

Fall 2015

- 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, physics engine using Bullet

Education_

BS/MS in Computer Science

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

Teaching Assistant

San Diego, CA

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

Fun Stuff_

- Top 2% of Project Euler solvers
- · ViaSat Intern Hackathon 2014 winner
- · Former President of Eve Security at UCSD
- Founder of Secular Student Alliance at UCSD
- Solved over 2500 insane difficulty Sudoku puzzles
- 12-win runs with every single class in Hearthstone Arena