

# Atyansh Jaiswal

SOFTWARE ENGINEER · SECURITY RESEARCHER

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## Work Experience

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### Anthropic — Privacy Infrastructure

MEMBER OF TECHNICAL STAFF

- Building Privacy Aware Infrastructure at layers in the tech stack with a key focus on Data Governance
- Strongly leveraging AI tooling, such as **claude code**, as a full fledged development paradigm
- Technologies include **Python, React, AlloyDB, BigQuery, GCP**
- Building privacy preserving systems for model training, ensuring regulatory compliance with **HIPAA, GDPR**, etc.

San Francisco, CA

September 2025 — Present

### Bytedance — Global Payments Security and Privacy Team

SENIOR SOFTWARE ENGINEER

- Detecting abusive automated behavior such as account takeover and payment fraud
- Protecting payments APIs from web attacks and DDoS
- Writing backend services using **Golang, Redis, MySQL, Kafka**
- Built an internal Inventory System to track metadata for all Payments APIs
- Building a rule engine platform at the API Gateway layer to intercept all payment transactions

San Jose, CA

March 2024 — September 2025

### Block — Privacy Engineering

STAFF SOFTWARE ENGINEER

- Leading Consent Management Framework at Block, built solutions for cookie consent across both Web and Mobile
- Worked on in house data deletion and export systems for privacy compliance
- Primarily using **Java, MySQL, Datadog, AWS, Snowflake, Terraform**
- Acted as an adhoc privacy analyst, surfacing and mitigating privacy concerns for Cash Contacts
- Created long term strategy for purpose based data classification and asset inventory

San Francisco, CA

May 2022 — March 2024

### Meta — Privacy Infrastructure

SENIOR SOFTWARE ENGINEER

- Focus on detecting and mitigating large scale scraping attacks on Facebook and Instagram
- Build systems to observe, classify, and mitigate bot 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

Menlo Park, CA

August 2017 — May 2022

### Meta — Messenger Privacy

SOFTWARE ENGINEER

- 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**

Menlo Park, CA

March 2020 — November 2021

### Meta — Ads Signals

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

Summer 2016

### Meta — Ads Infrastructure

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

Menlo Park, CA

Fall 2015

### Google — YouTube Infrastructure

SOFTWARE ENGINEERING INTERN

- 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

San Bruno, CA

Summer 2015

## Viasat<sup>W</sup> — Satellite Internet Analytics

SOFTWARE ENGINEERING INTERN

- 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

Carlsbad, CA

Summer 2014

## Projects

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### 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

### SPAM: Secure PAckage Manager

(Paper)

GRADUATE RESEARCHER

- Created a framework for package management using a federated Byzantine fault tolerant system
- Provide strong security guarantees against malicious developers, registries, and integration services
- Tied developer keys with online identities to build a federated trust network through endorsements

### 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

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### BS/MS in Computer Science

San Diego, CA

2012 — 2017

UNIVERSITY OF CALIFORNIA, SAN DIEGO

- **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

2016 — 2017

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