

Jason Pham

jasonpham.ca

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Experience

Airbnb

Software Engineering Intern, Security

San Francisco, CA
May 2019 - August 2019

- Designed and implemented an AWS service allowing other Airbnb services to share encrypted files with third parties (e.g. guests, hosts, government agencies) using Dropwizard and Node.js
- Developed an automated system to detect Airbnb services that do not respond to GDPR EAP requests and alert the relevant engineers and teams via Slack and Jira, ensuring all Airbnb services comply with EU law
- Architected a presigned URL system for Airbnb's encrypted file storage system to authenticate download requests
- Designed machine learning models to detect street addresses (PII/personal data) in Airbnb's datastores
- **Technologies Used:** Java, Dropwizard, Apache Thrift, Javascript, Node.js

Google

Software Engineering Intern, Daydream VR

Mountain View, CA
May 2018 - August 2018

- Designed and implemented a backend service to deliver Youtube VR livestreams in Daydream Home
- Reworked Daydream and Youtube VR's frontend and backend to include a more user friendly way to launch into copresence, a way to experience YouTube VR content in groups
- Revamped Daydream Home's caching system to better serve time-sensitive content
- Integrated Youtube VR's C++ Toast messaging system to the Android Java Layer via JNI
- Rebuilt the UI promo card designs for the Daydream Home 2D and VR client variants
- **Technologies Used:** Java, C++, JNI, Android, protobuf, Bazel

Projects

More at jasonpham.ca/projects

kotNES →

Side Project

- A high performance Kotlin Nintendo Entertainment System and MOS 6502 Emulator
- Supports native rendering output via OpenGL, Direct3D, X, and GDI
- Implements various memory mappers for support of popular games with fully timing accurate picture processing emulation and CPU instruction set

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VR Game

- Built an asymmetric Virtual Reality hide and seek game with the Unity game engine
- Implements polygon and rendering optimizations to meet the standards of SteamVR's 90 frames-per-second

Awards & Achievements

- 1st place team out of 190, MHacks X
- Hack the North 2018 Finalist (Top 12 of 242 teams), developing a biometric 3-factor authentication device
- 1st place team out of 30, UTSCode 2017
- Member of the University of Toronto's 2016, 2018 ACM-ICPC team
- Best Emerging Platforms Hack, Hack Princeton Spring 2017
- Impact and Innovation Award, Hack Princeton Spring 2017

Education

University of Toronto

Candidate for Honours Bachelor of Science in Computer Science

Degree Expected: 2020