JAMES CHUONG
SOFTWARE ENGINEER

💼 EXPERIENCES

CONTACT INFO
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Mar 2016 | present

Member of Technical Staff | Platform Engineer
Instart   📍 Palo Alto, CA. USA
- Key and TLS certificate management with Netflix <u>Lemur</u>, to help DevOps and technical support for secure key generation and deployment for Instart CDN service
- Integrating Hashicorp services: Vault, Nomad and Consul to above projects, to enable secure, automated deployments with infrastructure as code
- Created tooling for managing operations hardware: switches, servers, databases
- Restructuring the continuous integration and delivery pipeline with modern practices for building and shipping containerized services

May 2015 | Mar 2016

Part-Time Contractor
Instart   📍 Remote
- Continued maintaining automated testing and visualization software

Sept 2014 | Apr 2015

Software Developer - Internship
Instart   📍 Palo Alto, CA. USA
- Created proof of concept of automating Safari and Mobile Safari browser tests with Selenium and <u>ios-webkit-debug-proxy</u> on real devices
- Developed QA infrastructure and visualizations for automated browser tests <u>ProntoX</u>
- Created full stack visualization, leveraging ProntoX to measure performance of features and checking for regressions

May 2013 | Aug 2013

Software Developer - Internship
EVault (now Carbonite)   📍 Oakville, ON. Canada

Sept 2012 | Dec 2012

Software Designer - Internship
Blue Coat Systems, Inc.   📍 Waterloo, ON. Canada

Jan 2012 | Apr 2012

Instructional Assistant - Internship
University of Waterloo   📍 Waterloo, ON. Canada

SKILLS
Python
Java
C++
Puppet
Groovy

📁 SELECTED PROJECTS

2017 | 2018

Lemur - Certificate and Private Key Management
Instart @ https://github.com/Netflix/Lemur
- Certificate and key management, used to help automate, manage and deploy secrets to serve customer traffic
- Improved Lemur with asynchronous certificate signing and integrating with Instart services
- Integrated with Vault to further secure and distribute Lemur configuration secrets
- Tech stack is nginx, AngularJS, Python, PostgreSQL

2014 | 2016

ProntoX - Test Automation and Visualization
Instart
- Full stack development done to leverage WebpageTest to collect performance metrics for product testing
- Python and Java backends, with Jinja and AngularJS frontends, Redis and PostgreSQL database
- Infrastructure running on AWS EC2, with automated scaling done with CloudFormation
- Used by sales, engineering and data science teams to gather data on our services, find potential customers and explore avenues for future development
- Papers written using ProntoX and WPT:
  - <u>Deferrability Analysis for JavaScript</u>
  - <u>Perceived Performance of Webpages In the Wild</u>

🎓 EDUCATION

2010 | 2016

Bachelors of Computer Science
University of Waterloo   📍 Waterloo, ON. Canada

Honours Computer Science - Cooperative Program