JAMES CHUONG

SOFTWARE ENGINEER

💼 EXPERIENCES

CONTACT INFO

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Present | Mar 2016

Member of Technical Staff 2 | Platform Engineer
Instart   📍 Palo Alto, CA. USA
- Implemented Netflix Lemur for DevOps and technical support to manage and automate key material handling for the Instart CDN service
- Integrated Hashicorp services: Vault, Nomad and Consul to projects; enabling secure, automated deployments with infrastructure as code
- Created tooling and scripts for managing operations hardware: switches, servers, databases
- Restructured the CI/CD pipeline for building and shipping containerized services; automated Jenkins and Jenkins job creation

Mar 2016 | May 2015

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

Apr 2015 | Sept 2014

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

May 2013 | Aug 2013

Software Developer - Internship
EVault (now Carbonite)   📍 Oakville, ON. Canada
- Developed features for volume image based backups and restores for Windows servers with C++

Dec 2012 | Sept 2012

Software Designer - Internship
Blue Coat Systems, Inc.   📍 Waterloo, ON. Canada
- Developed features and bug fixes for the ProxySG network appliance in C++ and Java

Apr 2012 | Jan 2012

Instructional Assistant - Internship
University of Waterloo   📍 Waterloo, ON. Canada
- Tutored the object-oriented C++ programming course for computer science majors

SKILLS

Python
Java
Groovy
C++
SQL
Puppet

📁 SELECTED PROJECTS

2018 | 2017

Lemur - Certificate and Private Key Management
Instart @ https://github.com/Netflix/Lemur
- Certificate and key management, used to help automate 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

2016 | 2014

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:
  - Deferrability Analysis for JavaScript
  - Perceived Performance of Webpages In the Wild

🎓 EDUCATION

2016 | 2010

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

Honours Computer Science - Cooperative Program