

JAMES CHUONG

SOFTWARE ENGINEER

EXPERIENCES

Mar 2016 present	Member of Technical Staff Platform Engineer Instart Palo Alto, CA. USA <ul style="list-style-type: none">• Key and TLS certificate management with Netflix Lemur, 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 <ul style="list-style-type: none">• Continued maintaining automated testing and visualization software
Sept 2014 Apr 2015	Software Developer - Internship Instart Palo Alto, CA. USA <ul style="list-style-type: none">• Created proof of concept of automating Safari and Mobile Safari browser tests with Selenium and ios-webkit-debug-proxy• Developed QA infrastructure and visualizations for automated browser tests ProntoX• 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

SELECTED PROJECTS

2017 2018	Lemur - Certificate and Private Key Management Instart @ https://github.com/Netflix/Lemur <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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:<ul style="list-style-type: none">• https://people.mpi-sws.org/~jkloos/jsdefer-tr.pdf• https://arxiv.org/abs/1704.01220

EDUCATION

2010 2016	Bachelors of Computer Science University of Waterloo Waterloo, ON. Canada Honours Computer Science - Cooperative Program
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CONTACT INFO

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SKILLS

Python
Java
C++
Puppet
Groovy