

JAMES CHUONG

SOFTWARE ENGINEER

EXPERIENCES

present
|
Mar
2016

Member of Technical Staff | Platform Engineer

Instart

📍 Palo Alto, CA. USA

- 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

Mar
2016
|
May
2015

Part-Time Contractor

Instart

📍 Remote

- Continued maintaining automated 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 features and checking for regressions

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

SELECTED PROJECTS

2018
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2017

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

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

CONTACT INFO

📧 jchuong.github.io
📄 github.com/jchuong
in [linkedin.com/in/jchuong](https://www.linkedin.com/in/jchuong)
✉ chuong.james@gmail.com

SKILLS

Python
Java
C++
Puppet
Groovy