

JAMES CHUONG

SOFTWARE ENGINEER

EXPERIENCES

Present
|
Mar
2016

Senior Member of Technical Staff | Platform Engineer

Instart

📍 Palo Alto, CA. USA

- Implemented and developed Netflix Lemur for DevOps and technical support to manage and automate certificate management and enable customer self-service workflow
- Developed C++ library for integration with Vault with internal key management system
- Created tooling and scripts in Python for managing operations hardware: switches, servers, databases
- Integrated and deployed services with Vault, Nomad, Consul, Docker, Kubernetes, Puppet and Salt

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

CONTACT INFO

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

SKILLS

Python
Java
C++
Groovy
SQL
Puppet
Docker
Kubernetes

SELECTED PROJECTS

2018
|
2017

Lemur - Certificate and Private Key Management

Instart @ <https://github.com/Netflix/Lemur>

- Certificate and key management, used to automate generation and deployment key material to serve customer traffic
- Streamlining key handling processes, and opens possibility for customer self-service
- 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 (Flask), PostgreSQL

2017
|
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
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2010

Bachelor of Computer Science

University of Waterloo

📍 Waterloo, ON. Canada

Honours Computer Science, Co-operative Program