

JAMES CHUONG

SOFTWARE ENGINEER



EXPERIENCES

Mar
2016
|
present

Member of Technical Staff

Instart

📍 Palo Alto, CA. USA

- Restructuring the continuous integration and delivery pipeline with modern practices for building and shipping containerized services
- Automated configuration and deployment of multiple containerized Jenkins
- Key and TLS certificate management with Netflix Lemur, to help DevOps and sales engineers 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
- Automated workflow and compliance checks for production-level changes for security compliance and auditing using Jenkins and Gerrit prolog

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

- Developed QA infrastructure and visualizations for automated browser tests ProntoX
- Created proof of concept of automating Safari and Mobile Safari browser tests with Selenium and ios-webkit-debug-proxy
- Created full stack visualization for platform, leveraging the browser tests to measure performance of features and checking for regressions

May
2013
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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++

Sept
2012
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Dec
2012

Software Designer - Internship

Blue Coat Systems, Inc.

📍 Waterloo, ON. Canada

- Developed features and bug fixes for the ProxySG network appliance in C++

Jan
2012
|
Apr
2012

Instructional Assistant - Internship

University of Waterloo

📍 Waterloo, ON. Canada

- Tutored the object-oriented C++ programming course for computer science majors



SELECTED PROJECTS

2017
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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 support for asynchronous certificate signing, integrating with Instart's key-store service
- 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



EDUCATION

2010
|
2016

Bachelors of Computer Science

University of Waterloo

📍 Waterloo, ON. Canada

Honours Computer Science - Cooperative Program

CONTACT INFO

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SKILLS

Python

Java

C++

Puppet

Groovy

HTML/CSS/JS (NodeJS, AngularJS)

Learning