

JAMES CHUONG

SOFTWARE ENGINEER

EXPERIENCES

- Present
|
Jun
2019
- Senior UI Engineer**
Instart 📍 Palo Alto, CA. USA
- Created new dashboard pages for displaying metrics in Instart's customer portal in React + Redux
 - Refined React components for custom query and data filters, charts, and graphs
 - Integrated new self-service UI workflows for Instart services
- May
2019
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Mar
2016
- Senior Platform Engineer**
Instart 📍 Palo Alto, CA. USA
- Implemented, extended and deployed 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 via REST APIs for internal key management system
 - Created tooling and scripts in Python for managing operations hardware: switches, servers, databases
 - Integrated and deployed services with Vault, Docker, Nomad, Kubernetes, Puppet and Salt
- Mar
2016
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May
2015
- Part-Time Contractor**
Instart 📍 Remote
- Continued maintaining automated browser testing and visualization software
- Apr
2015
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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
- Aug
2013
|
Jan
2012
- Internships**
EVault, Blue Coat Systems, University of Waterloo
- Developed primarily in C++

CONTACT INFO

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SKILLS

JavaScript
React
Redux
Python
Java
C++
Groovy
SQL
Puppet
Docker
Kubernetes

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 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
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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