JAMES CHUONG
SOFTWARE ENGINEER

💼 EXPERIENCES

CONTACT INFO

- 🌐 jchuong.github.io
- ⌨ github.com/jchuong
- in linkedin.com/in/jchuong
- ✉ chuong.james@gmail.com

Senior Software Development Engineer - UI
Automation Anywhere, Inc. 📍 San Jose, CA. USA
- Lead the UI development for Discovery Bot project by working with product and UX designers, planning UI development and working with backend team, to bring Discovery Bot to general availablility
- Developed flowcharts with user editing capabilities using React, allowing users to recording and edit processes before converting them to bots
- Drove the transition to Typescript, and ensuring code and UX are in sync with the enterprise product. Provided code reviews and advice to improve code quality for junior members

Present | March 2020

Senior UI Engineer
Instart 📍 Palo Alto, CA. USA
- Created new dashboard pages for displaying metrics in Instart's customer portal in React + Redux for viewing network usage for billing information
- Refined React components for custom query and data filters, charts, and graphs; simplifying the UI experience for the customer
- Integrated new self-service UI workflows for Instart services, allowing customers to manage modify own configurations without requiring internal support

March 2020 | Jun 2019

Senior Platform Engineer
Instart 📍 Palo Alto, CA. USA
- Implemented, extended and deployed Netflix Lemur for DevOps and technical support, resulting in simplified certificate management and customer self-service workflows
- 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

May 2019 | Mar 2016

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 A/B test visualizations, leveraging ProntoX to measure performance of Instart features and monitoring for performance regressions between releases

Apr 2015 | Sept 2014

SKILLS

Javascript
Typescript
React + Redux
Python
Java
C++
SQL
Puppet
Docker
Kubernetes

📂 SELECTED PROJECTS

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 the process for customer onboarding and allowing customers to self-service new configurations
- Researched, integrated, and deployed Lemur as the primary developer
- Improved Lemur with asynchronous certificate signing and integrating with Instart sevices
- Integrated with Vault to further secure and distribute Lemur configuration secrets

2018 | 2017

ProntoX - Test Automation and Visualization
Instart
- Full stack development for automating WebPageTest to collect product performance metrics
- Productized the original codebase from monolithic code with manual, one-off deployment to modules and templatized Puppet deployments
- Automated worker scaling with AWS CloudFormation to reduce operational cost by 25%
- 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

2017 | 2014

🎓 EDUCATION

Bachelor of Computer Science
University of Waterloo 📍 Waterloo, ON. Canada

Honours Computer Science, Co-operative Program

2016 | 2010