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Experience

Security Engineer

Snap Inc.

Jan 2021 - Present (6 months +)

I work on infrastructure security, empowering and enabling Snap employees to securely access cloud resources and applications with minimal friction.

I'm currently focusing on our zero-trust network proxy which is based on Google's BeyondCorp implementation.

Senior Software Engineer

Hulu

Jan 2020 - Jan 2021 (1 year 1 month)

I work on the Production Engineering team under the Developer Experience organization at Hulu. Our team is responsible for ensuring that Hulu's technology stack is able to deliver a great user experience even under increasingly large traffic loads. To achieve this, our team needs to be able to simulate the viewing behaviors of millions of users, as well as the failure of key components in the critical path. Our team provides and maintains multiple developer-oriented PaaS solutions to enable these goals.

We offer a container-as-a-service load testing platform which leverages AWS EC2 Spot Instances, capable of launching up to ten million containers in as little as thirty minutes at a greatly reduced cost to on-demand or reserved EC2 instances. Developers at Hulu use this platform to simulate large scale key linear events such as sports games or presidential candidate debates.

We also provide a service mesh offering which abstracts traffic management and routing, observability, and security capabilities at several layers in the network path between client and server including edge, origin, and application sidecar. These settings are configurable via infrastructure-as-code which is managed through version control for ease of auditing and rollback. Applications onboarded to the service mesh platform automatically benefit from sane default configurations for retry attempts, request timeouts, and circuit breakers. They also benefit out-of-the-box from increased observability through distributed tracing, and enforced security standards such as TLS at the edge and mutual TLS between microservices.

Software Engineer

Hulu

Mar 2018 - Jan 2020 (1 year 11 months)

Software Development Engineer In Test

InAuth, Inc.

Feb 2017 - Mar 2018 (1 year 2 months)

I work on building efficient, scalable test automation solutions for our mobile and browser risking platform.

I established a framework for running functional tests against our risking service API and admin console using Cucumber, Rest-Assured, and Selenium WebDriver. I authored a number of core functionality test cases that have allowed the QA team to quickly determine whether a deployed service contained issues that would block customer acceptance. I also authored a number of core instrumentation tests for our Android SDK and established a suite of stubbed client/server responses enabling fast and independent testing of our products.

I improved continuous integration by implementing Jenkins build jobs to automatically run tests against completed builds, and then deploy the applications under test to a staging environment for manual testing, reducing friction in the deployment process and improving efficiency in the QA process.

Assistant Language Teacher

Japan Exchange and Teaching Program(me) (JET)

Jul 2015 - Jul 2016 (1 year 1 month)

Taught English at nine Elementary Schools in Suzu City, Ishikawa Prefecture, Japan

Organized lesson plans for fifth and sixth grade English and worked with Japanese teachers of varying English ability

Passed the Japanese Language Proficiency Test N2 Exam which measures "the ability to understand Japanese used in everyday situations, and in a variety of circumstances to a certain degree."

Software Development Consultant

The Walt Disney Studios

Jan 2015 - Jun 2015 (6 months)

Maintained and added features to our contract and talent management systems.

Developed a deal drafting web application which provided a mechanism for deal requests to be tracked, revised, and approved or rejected using C#, ASP.NET MVC, SQL, and Javascript.

Software Development Engineer in Test

Microsoft

Aug 2012 - Sep 2014 (2 years 2 months)

Created a web application using C#, ASP.NET MVC and JavaScript to process Windows test data from a SQL database, and allow users to view and filter data.

Created an Outlook application plugin to configure and create HTML reports for high impacting issues across teams.

Developed security logic for test plan management software.

Added features and fixed defects for Microsoft internal invoicing web portals.

Refactored and migrated several web applications to Microsoft Azure cloud technology.

Computer Science Tutor/Grader

UC San Diego

Sep 2011 - Jun 2012 (10 months)

Tutor for Basic Data Structures and Object-Oriented Programming in Java

Graded programming assignments and exams
Answered questions during open lab hours and through an online class forum



Research Intern

Taiwan Forestry Research Institute

Jun 2011 - Aug 2011 (3 months)

Designed and developed software for "Vespidae wasp" species classification based on images
Used OpenCV library in C++ for image processing, feature extraction, and machine learning algorithms
Studied various image processing techniques and machine learning models
Developed intercultural and technical communication skills
Achieved an overall recognition accuracy of about 95% in over 400 images across 16 species measured using cross-validation



Bluetooth Firmware Engineering Intern

Broadcom Inc.

Jun 2010 - Dec 2010 (7 months)

Created a test plan for measuring the performance of Bluetooth data transmission under real world conditions such as physical obstruction and interference from WiFi.
Generated Perl scripts to automate testing and configure device parameters.
Compiled a report measuring the perceived quality degradation of human speech transmitted through Bluetooth, comparing various encoding schemes, across multiple distances, and subject to several forms of interference.

Education



UC San Diego

Bachelor of Science, Computer Engineering

2008 - 2012

Mentor Chair for Tau Beta Pi; through collaboration with Eta Kappa Nu and the Jacobs School of Engineering, helped to establish a single unified engineering tutoring program.
Engineering Student Council Representative for Eta Kappa Nu.



Clark Magnet High School

High School Diploma

2004 - 2008

Licenses & Certifications



AWS Certified Solutions Architect - Associate - Amazon

Issued Aug 2018 - Expires Aug 2020

Skills

Python (Programming Language) • Amazon Web Services (AWS) • Kubernetes • Distributed Systems • Cloud Computing • Scalability • Software Development • Docker • JavaScript • Git