Jaden Wang

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EXPERIENCE

Rapid7 - *Software Engineer II* *October 2021 - Present*

- Led the migration of a Python service to a highly available Spring microservice utilizing Redis and SQS, deployed on Kubernetes via Terraform, receiving heartbeats beaconed in from over 10 million assets.
- Created vital service and asset metrics and analytics dashboards using DataDog and Grafana, resulting in massively increased visibility for major stakeholders on assets deployed in the field.
- Developed system applications using Go that are deployed to every asset and responsible for configuring and patching various other software components deployed to the same asset.

Amazon - *Software Development Engineer* *February 2021 - October 2021*

- Orchestrated the development, deployment, and performance testing of API Gateway and Python Lambda applications supporting a user base of 690k, with a focus on operational excellence.
- Integrated complex business logic handling global employee compensation policies utilizing Drools and Cucumber for BDD testing.
- Designed and implemented components of an end-to-end distributed system pipeline involving ETL, data validation, and parallel processing with AWS Glue, Batch, Step Function, and CloudFormation.

Amazon - *Software Development Engineer Intern* *May 2020 - September 2020*

- Developed a human resource management platform as part of a global expansion impacting a population of over 139k employees.
- Designed and implemented scalable backend services using Java, MyBATIS, Google Guice, AWS, and a variety of other internal tools.
- Engineered frontend integration with internal APIs and backend services using React.js and Node.js

University of Toronto - *Teaching Assistant* *September 2018 - December 2020*

- Led labs and provided support for students in introductory computer science courses using Python and C, teaching topics such as file I/O, memory management, algorithms, and data structures.

PROJECTS

Carnet2 - *github.com/jadenyjw/carnet2-arduino* | **Demo:** *https://bit.ly/2IgObn0*

- Engineered a self-driving car with a trainable neural network that can maneuver through arbitrary paths.
- Designed and trained a convolutional neural network with 70% accuracy on self-collected data.
- **Technologies Used:** *Software:* Python, Keras, OpenCV | *Hardware:* Arduino, ESP8266

Tanks - *github.com/jadenyjw/tanks-backend*

- Implemented a real-time multi-client server for a game, utilizing websockets for peer communication.
- **Technologies Used:** *Backend:* Node.js | *Frontend:* React.js, Pixi.js | *Systems:* NGINX, Google Cloud

EDUCATION

University of Toronto - *Honours Bachelor of Science - Distinction*
(Computer Science Specialist - Software Engineering & Statistics Major)

Dean's List x2 | 2017 - 2020

LANGUAGES & TECHNOLOGIES

Java | Python | C | Golang | Terraform | SQL | AWS | C | Linux