Herman Li

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Education

University of Hawaii at Manoa	MS Computer Science	August 2019-May 2021
University of Hawaii at Manoa	BS Computer Science	August 2014-May 2019

Work Experience

Raytheon | Software Engineer II   Jun. 2021 – Present
- Developing a cloud-based streaming data processing platform built on microservices architecture for satellite ground station written in Python.
- Uses ActiveMQ, SQS, Minio, DynamoDB, Docker, Kubernetes, Helm, and Redis with tests utilizing pytest and behave for unit test and behavior-driven development respectfully.
- Contributed to architectural design decision to migrate from using an ActiveMQ approach to employing a Redis solution to manage queue and task statuses.
- Am the primary person for undertaking path-finding work to integrate new technologies for use in the project, including Redis, ActiveMQ, Kafka, etc.
- Led effort to set up Jenkins pipelines for all our repositories with code coverage using Cobertura for continuous integration.
- Worked on embedded satellite flight software running on the satellite bus to handle data communications between the satellite's sensors and the ground station.
- Software was written in C/C++ and based on VxWorks, a real-time operating system.

Raytheon | Software Engineering Intern   Jun. 2020 – Aug. 2020
- Developed a DevOps tools for streamlining modifications and fixing issues related to migration of UML models into Rhapsody through the Rational Rhapsody Java API.

Datahouse | Software Intern   May 2019 – Aug. 2019
- Re-implemented internal tool which helped balance project workloads to identify employees over and under-utilized relying on data pulled from OpenAir payroll management API.
- Built on NodeJS with Angular.js front-end and Express.js back-end. Used Sequelize to connect to a MySQL database and other NPM libraries for other functions.

Amazon | Software Development Engineer Intern   May 2018 – Aug. 2018
- Investigated and built data store of business metrics allowing utilization of different visualization tools for use by managers to track changes and anomalies in the system.
- Utilized multiple AWS services to build the project including Lambda, Redshift, DynamoDB, Step Functions, Athena, CloudWatch, etc.

Skills

- ***Programming Languages:*** Python, C/C++, Java, JavaScript / Typescript, SQL, Kotlin, and Matlab.
- ***Tools:*** Git, Bitbucket/Github, Jenkins, Confluence, Jira, Minio, Redis, ActiveMQ Kubernetes, Kafka, and Docker.
- ***Amazon Web Services (AWS):*** Lambda, Redshift, DynamoDB, SQS, and S3.

Other Activities

Won Hawaii Annual Code Challenge   Oct. 2018 – Nov 2018
- Created data visualization tool for presenting University of Hawaii power consumption data.
- Worked on back-end consisting of a web API created using AWS services, utilizing AWS Lambdas and S3 to both process and store aggregated data.