

Herman Li

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Education

University of Hawaii Manoa	MS Computer Science, 3.86	August 2019-May 2021
University of Hawaii Manoa	BS Computer Science, 3.71	August 2014-May 2019

Work Experience

Raytheon Software Engineer II Jun. 2021 – Present

- Working on cloud-based data/image processing software for satellite ground station in Python. Uses ActiveMQ, SQS, Apache Spark, Flask, Docker, and other AWS resources with testing done through pytest.
- Contributed to decision-making for architectural design decisions for queues and task statuses.
- Built baseline Docker image used for development and production systems of processing application, shrinking the original image size by over 50%.
- Worked on EWS satellite program flight software and test procedures in C/C++ for a prior project.
- Set up Jenkins pipeline and Jenkinsfiles for both current and prior project.
- Using Jira for task tracking and sprint management.

Raytheon Software Engineering Intern Jun. 2020 – Aug. 2020

- Worked on DevOps tools for streamlining modifications and fixing issues related to Rhapsody models through Rational Rhapsody API.
- Generated code coverage reports for Jenkins pipeline.

Datahouse Software Intern May 2019 – Aug. 2019

- Rebuilt internal tool which helped balance project workloads and identified employees over and under-utilized using 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

- Built data store of business metrics allowing utilization of different visualization tools to be used 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

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- Experience in C/C++, Java, JavaScript, SQL, Kotlin, Python, and Matlab.
 - Experience with Git, Bitbucket, Jenkins, Confluence, Jira, and Docker.
 - Amazon Web Services (AWS): Used Lambda, Redshift, DynamoDB, Step Functions, S3, and CloudWatch.
 - Experience with VxWorks and Rhapsody.

Other Activities

UH Association for Computing Machinery (ACM) Aug. 2017 – May 2021

- Professional organization for computer science.
- Participation in other sub-organizations such as algorithms and Grey Hats (cybersecurity).

Won Hawaii Annual Code Challenge Oct. 2018 – Nov 2018

- Created data visualization tool for presenting University of Hawaii power consumption data.
- Worked on backend consisting of a web API created using AWS services.
- Backend used AWS Lambdas and S3 to process data and store aggregated data.