Peter Ho

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Education

University of Maryland, College Park Fall 2018 – Fall 2021
Science and Global Change Scholars Program
Bachelor of Science, Computer Science and Mathematics

Professional Experience

Capital One June 2021 – August 2021
Software Engineering Intern
- Migrated several SOAP and REST services to a Bogie managed deployment pipeline, testing the changes in QA and pushing the new pipeline to production
- Wrote a script that automated this pipeline migration by parsing through the service's Jenkinsfile and writing to the Bogiefile
- Created a playbook documenting the migration process for future developers to use
- Researched and implemented a distributed cache locking feature to solve a cache miss issue that was flagged for one application

PayPal June 2020 – August 2020
Software Engineering Intern
- Designed and created a new microservice using a modified Java SpringBoot framework to implement a new feature for an existing API
- Collaborated with the Credit Payments team to help with their sprint work – writing acceptance tests for their APIs, doing production support, and updating documentation

Terrapin Works March 2019 – Present
Makerbot Innovation Center Lab Manager
- Process, splice, and start 3D print requests
- Assist customers with CAD design issues
- Maintain and repair 3D printers and parts

Software Developer
- Contributed to various software development projects for both the University of Maryland and external clients
- Built out the backend for a web application using Flask and various AWS services that tracked various different metrics for lab spaces owned by Terrapin Works by having students swipe in with their University ID cards
- Helped to revamp and redesign the organization's website through Drupal, as well as designing several custom features for the site with HTML/CSS

Johns Hopkins Applied Physics Laboratory Fall 2016 – Spring 2018
Asymmetric Operations Sector Intern
- Designed and built a sentiment analysis algorithm using various techniques – trained and tested the model on live Twitter data using the Tweepy python library to calculate sentiment of tweets

Space Exploration Sector Intern
- Collaborated with another intern to develop, improve, and maintain an inventory management system used by my mentor's team – the system was built using Java, with a Swing GUI and a MySQL database

Other Experience

Maryland Food Recovery Network   Fall 2020 - Present
Recovery Leader
- In charge of events to recover food from campus dining halls and package/send them to various hunger-fighting nonprofits in the DC metro area
- Responsible for making sure that the recoveries run smoothly and that each volunteer knows what to do

University of Maryland Department of Computer Science   Spring 2020 – Spring 2021
Computer Science Student Ambassador
- Attended recruitment and prospective student events held by the UMD Computer Science department to talk to students about the University and the department
- Held one-on-one meetings with students and their families to answer any questions they may have

Science and Global Change Scholars Program   Summer 2019 – Spring 2020
Peer Mentor
- Guided freshmen in the Science and Global Change Scholars Program as they transition to college life and give advice/answer any questions they may have
- Equipped mentees with academic information and engagement opportunities
- Planned and held events to help them become closer with each other and more familiar with the university

Skills

Languages:
- Java
- Python
- Android Studio
- HTML/CSS

Technologies:
- Git
- Docker
- Raspberry Pi
- Jira/Agile
- Matlab
- AWS
- CI/CD
- Flask
- Spring
- PyTorch
- Jenkins
- Bogie