

# Christopher Nguyen

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## Program Management | Software Engineering | Curriculum Development

### EDUCATION

#### UNIVERSITY OF HAWAII AT MANOA

Honolulu, HI

INFORMATION & COMPUTER  
SCIENCES

MINOR IN BUSINESS

May 2018

GPA: 3.7 / 4.0

### SKILLS

#### PROGRAMMING

Proficient:

JavaScript • Java • HTML • CSS

Familiar:

C • C++ • Python • PHP

Tools/Libraries:

Node.js • Express • MySQL

MongoDB • Cordova • Git

#### TECH MANAGEMENT

Agile • Scrum • Waterfall

### PROJECTS

#### WAYFINDER

JavaScript, Node.js, Ionic  
Wayfinder (by LoveMilkTea) is a cross-platform app to enhance navigation and event-finding using crowd-sourcing & Google Maps.

Won 1st at the Hawaii Annual Code Challenge Hackathon.

#### PIPE

C++, C

PIPE is an application that translates English-language sentences to C code for Botball robotics.

Best in Computer Science at the 2014 Honolulu Science Fair.

### EXTRACURRICULARS

- Alexander Hamilton Scholar
- AFX Dance at UC Berkeley
- Vietnamese Student Organization at UH Manoa

### EXPERIENCE

#### NASA | SPACE GRANT FELLOW

Fall 2017 – Summer 2018 | Python, AWS

- Mapped potential ice deposits on the Moon using temperature data from the Lunar Reconnaissance Orbiter (LRO) which produces 7 billion lines of data daily.
- Reduced I/O operations by 85% (6570 hours per year of data) using Multiprocessing and Amazon EC2.

#### OCEANIT (DEFENSE ENGINEERING) | SOFTWARE ENGINEER INTERN

Fall 2017 – Summer 2018 | Python, OpenCV

- Led team of seven to develop an inexpensive, AI camera system that improves annual coffee bean harvest yields by \$250,000 using OpenCV.
- Built a OpenCV template matching application to automate the image labeling process when building new Tensorflow Object Detection models.
- Researched neuromorphic AI chip use-cases and technical solutions in partnership with Nepes (semiconductor corporation in South Korea).

#### IBM | SOFTWARE DEVELOPER INTERN

Summer 2017 | JavaScript, Node.js, HTML, CSS, Jenkins

- Automated the update detection and build processes for Watson Data Platform services to prevent breaking changes and reduce developer downtime.
- Developed RESTful Express APIs to handle dependency version checks and documented them with Swagger for 8000+ Watson developers.
- Led a team of 4 through sprint plannings and daily standups as scrum master.

#### OCEANIT (DEFENSE ENGINEERING) | NETWORK SECURITY INTERN

Fall 2016 - Summer 2017 | Python, Shell

- Acted as an IT consultant for a government agency to upgrade the existing Windows infrastructure to improve workflow by 90%.
- Built a video wall system after prototyping and conducting initial feasibility tests which led to a 97% cost reduction (\$58,000 in savings).

#### DITTO (BLUE STARTUP) | SOFTWARE INTERN

Fall 2015 - Spring 2016 | Node.js, JavaScript, HTML, CSS

- Delivered a social media platform with 200+ users for Android and iOS and met multiple stakeholder milestones.
- Redesigned HTML website using a data-driven approach with AB testing and Google Analytics which led to a 90% user increase.

#### OCEANIT (DEFENSE ENGINEERING) | SOFTWARE DEVELOPER INTERN

Summer 2015 | JavaScript, Node.js, HTML, CSS

- Developed an Android and iOS Customer Relationship Management (CRM) app using Cordova and Design Thinking to increase client engagement.
- Refactored a cross-platform map app to support the government's ability to assess and respond to disasters (hurricanes, earthquakes, floods) with ArcGIS.

#### HAWAII DEPARTMENT OF EDUCATION | STEM MENTOR

Fall 2014 - Fall 2017 | Curriculum Design

- Taught K-12 students and teachers C++ and JavaScript to cultivate STEM workforce development for the State of Hawaii.
- Recruited 30+ low-income students and networked them with external mentors.