

Christopher Nguyen

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EDUCATION

UNIVERSITY OF HAWAII AT MANOA

Honolulu, HI

COMPUTER SCIENCE MINOR IN BUSINESS

ADMINISTRATION

Expected May 2018

Major GPA: 3.9 / 4.0

Cumulative GPA: 3.8 / 4.0

SKILLS

PROGRAMMING

Proficient:

JavaScript • Java • PHP •
HTML • CSS

Familiar:

C • C++ • Python • Shell

Tools/Lib:

Node.js • Express • MySQL •
MongoDB • Ionic • Cordova •
Git • Swagger • Raspberry Pi

PROJECTS

NEED APP TO EXERCISE

JavaScript, Node.js

NATE is a Facebook Messenger chatbot that recommends basic workout routines to new gym-goers.

Ensured secure HTTPS callbacks with Heroku hosting.

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

Expected Fall 2017 – Summer 2018 | Python

- Building a cloud service to host and process temperature data from the NASA Lunar Reconnaissance Orbiter on the Moon.
- Reduced the runtime of I/O operations by 60% (15 hours) prior to using Amazon EC2 RAID configurations.
- Producing a map of 'cold traps' to identify potential ice deposits on the Moon.

IBM | SOFTWARE DEVELOPER INTERN

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

- Automated the detection, sandbox, and build processes for 3rd party dependency updates in Watson Data Platform services.
- Followed the Visitor design pattern to develop RESTful Node.js and Express APIs to handle dependency version checks and documented them with Swagger.
- Led a team of 4 through sprint plannings and daily standups as scrum master.
- Architected a blockchain solution for ticket sales at the BlueHack hackathon.

OCEANIT | NETWORK SECURITY INTERN

Fall 2016 - Summer 2017 | Python, Shell

- Built a 72" video wall system using open-source software, IP routing, and seven Raspberry Pis.
- Conducted initial feasibility tests and prototyping which led to a 97% cost reduction (\$58,000 cheaper compared to commercially sold video wall).
- Reduced electricity costs by 40% by configuring a smart socket system to monitor and control the video wall's energy consumption.

DITTO | SOFTWARE INTERN

Fall 2015 - Spring 2016 | JavaScript, HTML, CSS

- Developed a responsive website for Ditto, a social media startup in the Blue Startups Accelerator, with 200 users, meeting multiple stakeholder milestones.
- Conducted extensive research using AB testing and Google Analytics of user behavior and user experience.
- Followed the scrum agile development methodology on a team of 7 engineers, designers, and marketers.

OCEANIT | 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 by 10%.
- Refactored a mobile damage assessment app to reduce the damage assessment time of disaster response units by 40% (4-5 hours) with the ArcGIS API.

HAWAII DEPARTMENT OF EDUCATION | STEM MENTOR

Fall 2014 - Fall 2017

- Collaborated with 28 schools in the Kaimuki-McKinley-Roosevelt Complex to develop a 21st century STEM curriculum that sparked a 48% interest in STEM.
- Mentored students that totaled \$15,000+ in agency awards at the Honolulu District, Hawaii State, and Intel International Science Fairs.
- Recruited 30+ high-achieving students and networked them with external project mentors.