

Tuan Giai Giang

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OBJECTIVE: To join a team of innovative, motivated professionals who leverage the power of technology to improve communities, increase efficiency, and foster an ever-evolving world of learning. I welcome the opportunity to strengthen my skills while contributing as an avid team member to create exciting new technology and the ultimate user experience.

EDUCATION:

B.S in Computer Science with a Minor in Mathematics (Major GPA 3.88 / 4.0) **May 2017**
University of Hawaii at Hilo *Hilo, HI*

- Earned Certificates: Database Management
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EXPERIENCE:

Full Stack Developer *EPIC 'Ohana, Inc., Honolulu, HI* **June 2017 – Present**

Temporary appointment developing front-facing user interfaces and back-end functionality for several custom web applications. Each project required careful planning; clear understanding of business processes, user needs, and workflow; as well as comprehensive user testing and training.

Location Finder App

- Designed an interactive user interface with Google Maps API to visually map specified locations stored within the company's database
- Sorts data by distance radius and display computed locations for better viewing experience

HR Training Manage Application

- Developed a full-scoped human resources application to track and monitor professional training programs/ sessions for employees
- Created a user-friendly interface that allows training records to be linked to individual employees with the options of managing progress over time, documenting key benchmarks, and certifying completion
- Integrating a reporting feature to query data by training record and also by employee record

Program Participants Management Application

- Built a tracking tool to house participant demographic data and activities
- Integrated a detailed reporting feature to track output statistics given a range of dates and location(s) of record

Intern Software Engineer *Smithsonian Submillimeter Array, Hilo, HI* **June 2015 – August 2015**

- Developed a graphing software with Python that display 21 datasets with real-time updates and improved user interaction

Intern Software Engineer *Gemini Observatory, Hilo, HI* **June 2014 – August 2014**

- Implemented a script in Python that follows log files in directories and notifies users when a log file outputs messages that were found matched with regular expressions
 - Implemented a GUI using HTML5 for users to input regular expressions and notification actions to the scripts on different directories
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COMMUNITY ENGAGEMENT:

President/ Board Member *Hawaii Helping Our People Envision Success, Hilo, HI* **June 2013 – Present**

- Advocate, educate, and collaborate with former and current foster youths and the community for better outcomes for young people in care

Foster Care to Success *Fellow at Aim Higher, Alexandria, VA* **May 2015 – June 2015**

- Provided tips and guidance to young people in care about post-secondary education

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PUBLICATIONS:

- Tuan Giang, John Kuroda, and Ted Shaneyfelt. "Implementation of Automated Vanilla Robotic Crane Prototype," published by 12th Systems of Systems Engineering Conference, Waikoloa, Hawaii, 2017
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NOTABLE PROJECT:

Directed Studies

May 2016 – Present

University of Hawaii at Hilo

Hilo, HI

- Built a prototype robotic crane system that incorporates communication between hardware and software components
 - Utilized robotic vision to automates robotic mechanical movement with Java
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SKILLS:

Programming Skills:

- Preferred Languages of Development: Python and Java
- Proficient with Programming in C++, Javascript, SQL, and PHP

Others Skills:

- Media training presentations and public service announcements
 - Avid public speaker with various audiences
 - Advocate for Foster Youth's outcomes from foster care
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* References are available upon request