

# Jack Lam

## Profile

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Object-oriented programmer with skills in leading teams to solve critical problems in a timely manner using appropriate tools. Experience with troubleshooting hardware and software in complex systems.

## Technical Skills

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<b>Languages</b>	Java, C, Python, MySQL,
<b>Tools</b>	Eclipse, Visual Studio 2008, Visual Studio 2010
<b>Hardware</b>	Dell, Laptops, Routers, Switches, Cabling, Motherboards, Memory, Peripheral Tape Backups, Network Cards
<b>Platforms</b>	Windows XP, Vista, 7, CentOS, Ubuntu

## Projects

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- Automatic Music Sheet Translation
  - Built system to perform Optical Music Recognition to translate physical music sheets into virtual music sheets.
- Online Batch Scheduling Simulator
  - Built system to simulate high performance computing nodes with various batch scheduling algorithms.
- Proxy for electronic resources
  - Created scripts and database to handle Squid proxy authentication for users connecting to the university's library electronic resources.
  - Created authentication webpage utilizing PHP and CAS.
- IP and MAC address database
  - Created scripts to collect active IP and MAC address information across a network into a database.

## Experience

June 2016– Present                                      University of Hawaii at Manoa                                      Honolulu, HI

### Graduate Research Assistant

- Design and implement software for data visualization and virtual reality.

August 2013– June 2016                                      University of Hawaii at Manoa                                      Honolulu, HI

### Graduate Teaching Assistant

- Create and review material with undergraduates in class weekly for topics in Discrete Mathematics.
- Tutor undergraduates who need additional help.

October 2008 – August 2013                                      University of Hawaii at Manoa                                      Honolulu, HI

### Computer and Network Support Specialist Student Aide

- Install, troubleshoot, and maintain computers running Windows, Mac OS, and Linux.
- Install and troubleshoot of network equipment, including hubs, switches and servers.
- Inventory of all computer related equipment.

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## Jack Lam

### Education

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August 2013 - Present                      University of Hawaii at Manoa                      Honolulu, HI

**Computer Science, MS, expected Dec 2017**

Human Computer Interaction, Computer Vision, High Performance Computing, Algorithms

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August 2008 - May 2013                      University of Hawaii at Manoa                      Honolulu, HI

**Computer Science, BS**

Human Computer Interaction, Data Storage and Retrieval, Operating Systems, Network Security,  
Computer Security Ethics, Algorithms, Philosophy of System Design, Video Game AI

### References

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References are available on request.