

# Michael Liang Li

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## Experience & Technical Skills

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**Software Intern (Acme Aerospace)**  
Tempe, AZ

August 2019 – Present

- Scripted in Python and Windows batch to automate checking proper documentation and archiving past projects in VisualSVN and Smartbear Collaborator

**Convolutional Neural Networks (ASU CSE494)**

August 2019 – Present

- Built the LeNet-5 architecture in Keras, achieving 90% test accuracy using the MNIST and Fashion MNIST datasets
- Reached 75% test accuracy on the CIFAR-10 Dataset with 10 epochs

**CTF Challenges (ASU CSE466)**

August 2019 – Present

- Executed a variety of exploit techniques in a lab setting
- Reverse engineered x86\_64 (AMD64) Linux binaries with Ghidra
- Wrote assembly code to exploit Linux systems and exploiting common insecure programming practices

**Abstract Syntax Tree (ASU CSE340)**

January 2019 – May 2019

- Developed an Abstract Syntax Tree to recognize a grammar, and parse for syntax and semantic errors
- Designed with scalability and easy modification in mind, using object-oriented design principles such as abstract base classes

**Huffman Code (ASU CSE310)**

August 2018 – December 2018

- Implemented a Huffman compression algorithm in C++ to generate a tree as well as calculating the compression ratio.
- Tested and benchmarked average compression ratio and runtime.

**Digital Portfolio Help Services (ASU)**  
Tempe, AZ

May 2018 – August 2019

- Led the redesign of website templates for the School of Life Sciences, School of Earth and Space Exploration and the Mary Lou Fulton Teacher's College.
- Implemented tutorials and videos for Digication and the various tools with over 500,000 hits
- Revised the web design for the Help Resources pages with a focus on accessibility

**Proficient in C, C++, Python, Java, Ubuntu Linux**

**Familiar with x86\_64 assembly, cron, SQL**

## Education

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**Arizona State University**

Bachelor of Science, Computer Science (GPA: 3.58)

Minor in Studio Art

Barrett, the Honors College

Tempe, AZ

Expected: May 2021

## Volunteering and Community Involvement

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**Secretary and Race Team Member (ASU Dragon Boat)**

August 2017 – September 2019

- Competed in San Diego, Tempe and Long Beach paddling competitions (2017-2018)
- Volunteered with the Iron Man organization as part of the security team, and with Boeing to clean and renovate the Desert Sun Child Development Center