Michael Liang Li

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github.com/saesus · instagram.com/saesus

Experience & Technical Skills

Software Intern (Acme Aerospace) — August 2019 – Present
Tempe, AZ

- 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) — May 2018 – August 2019
Tempe, AZ

- 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

Arizona State University — Tempe, AZ
Bachelor of Science, Computer Science (GPA: 3.58) — Expected: May 2021
Minor in Studio Art
Barrett, the Honors College

Volunteering and Community Involvement

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