Marco Antonio Flores

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EDUCATION

Louisiana Tech University

B.S. in Computer Science | Related Coursework GPA: 3.4
  Concentration in Computer Engineering
Ruston, LA | Expected May 2021

COURSEWORK

Computer Architecture, Advanced Data Structures and Algorithms, Database Management Systems, Programming Languages, Embedded Systems, Software Design and Engineering, Artificial Intelligence, Electrical Engineering and Circuits I

SKILLS

Programming Languages: C, Java, Python, Assembly Languages, Golang
Technologies: AWS, Git, Docker, SQL, KVM
Operating Systems: Linux (primary), Mac OS, Windows
Spoken Languages: English (native fluency), Spanish (working fluency)

EXPERIENCE

Amazon Web Services | Systems Development Engineering Intern

May 2020 – August 2020 | Seattle, Washington - Virtual

- Built a data acquisition tool written in Python for an internal ticketing system, relying on various AWS services such as KDS, KDF and S3, as well as Elasticsearch clusters
- Made bulk amounts of temporal ticketing and sprint data accessible by multiple mediums and visualized it in a Grafana dashboard

Louisiana Tech Computer Help Desk | Representative

September 2019 – September 2020 | Ruston, Louisiana

- Managed and was responsible for on-campus housing network outages
- Repaired numerous kinds of equipment across campus such as desktops, projectors, and network switches both in hardware and software

PROJECTS

MNIST Handwritten Digit Neural Network - https://github.com/nxtHiro/mnistANN

October 2020

- ANN trained on MNIST digit training sets
- Created a versatile file format to handle construction of neural networks from a file
- Written from scratch in Java

cmdYoutube - https://github.com/nxtHiro/cmdYoutube

October 2019

- Terminal based interface to search and play Youtube audio.
- Written in a combination of Golang and C

Veikk Drawing Tablet Driver

May 2019 - Present

- Kernel module driver for a Veikk s640 for Linux

INVOLVEMENT

Louisiana Tech University | Undergraduate Researcher

November 2019 – May 2020 | Ruston, Louisiana

- Working towards a scalable approach for semi-supervised learning for graph-structured data utilizing convolutional neural networks

Association of Computing Machinery | President

May 2019 – Present | Ruston, Louisiana

- Planning events, managing resources, and giving technical talks to the student body

Geaux Hack | CTEC | Student Mentor

March 29, 2019 | Baton Rouge, Louisiana

- Supervision of High School students from around East Baton Rouge, Louisiana
- Provided guidance on student driven ideas