Mu-Fan (Leo) Weng

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International Student (F-1 Visa)

OBJECTIVE

Adaptable, passionate third year student at Georgia Tech majoring in Computer Engineering and minoring in Computational Data Analysis. Solid programming skills encompassing front-end, back-end, and data science. Seeking an internship or co-op position for Summer 2018.

EDUCATION

Georgia Institute of Technology   Atlanta, GA
B.S. Degree, Computer Engineering   Aug. 2015 – present
Minor in Computer Science (Computational Data Analysis)

- Current GPA: 3.41
- Expected Graduation: May 2019

WORK EXPERIENCE

Thinkpower Information Corp.   Taipei, TAIWAN
Database Software Intern   June 2015 – July 2015

- Coordinated project to create FAQ database to increase employee productivity by reducing search time
- Handled details in web design formatting with HTML and CSS
- Managed and maintained database with MySQL and jQuery

Williams Whittle   Alexandria, VA
Advertisement Intern (unpaid)   May 2015

- Compiled client data for analysis and meeting deadlines efficiently
- Collaborated to prepare and present pitches for upcoming projects

ACTIVITIES

- Member, Georgia Tech Club Volleyball   Fall 2017 – present
- Member, Theta Chi Fraternity   Fall 2016 – present
- **Business Manager**, Sympathetic Vibrations (All-Male Acapella Group)   Spring 2016 – Fall 2017

AWARDS

- Randolph Fairfax Medal for Character, Conduct, and Scholarship   Spring 2015
- Alexander Jennette Johnston Award for Excellence in Performing Arts   Spring 2015
- **1st Place**, International Championship of Collegiate A Cappella, South Quarterfinals   Spring 2017
- **2nd Place**, International Championship of Collegiate A Cappella, South Semifinals   Spring 2017

SKILLS

Hardware	Oscilloscope, Logic Analyzer, NI myDAQ, mBed
Software	Microsoft Office: Word, Excel, Powerpoint; Lightworks, Quartus II, Linux
Programming	Java, MATLAB, C, C++, Python, HTML, PHP, CSS, JavaScript, Assembly (MIPS), SQL, jQuery, Hadoop, VHDL
Languages	Mandarin Chinese (completely fluent), French (elementary proficiency)
Communication	Technical Writing, Project Management, Public Speaking, Stage Performance

PROJECTS

Data and Visual Analysis Fall 2017

Analyzing and visualizing data via various methods and tools

- Collected and visualized Twitter data by using Python and Twitter API
- Organized and manipulated data into database using SQLite
- Visualized data and designed graphs using D3 and JavaScript
- Created MapReduce applications with Hadoop and Pig

MARTA Database Project Fall 2017

Create web application to implement database on back-end and UI on front-end

- Created web application using PHP and CSS in coordination with database manipulation and organization using phpMyAdmin and SQL

Doombots Fall 2016

Object detection using ultrasonic rangefinders on the DE2Bot

- Designed and programmed a modified AmigoBot using Assembly and Quartus II program
- Collaborated with team to achieve the objective of detecting and locating objects in an arena

Missile Command Fall 2016

Recreation of Atari's popular Missile Command video game

- Designed, recreated, and added extra features to the video game on the mbed using C

RELEVANT COURSEWORK

Digital Design Laboratory

Design and implementation of digital systems, including a team design project. CAD tools, project design methodologies, logic synthesis, and assembly language programming. Included a team design project.

Introduction to Artificial Intelligence

An introduction to artificial intelligence and machine learning. Topics include intelligent system design methodologies, search and problem solving, supervised and reinforced learning.

Introduction to Perception and Robotics

Covers fundamental problems and leading solutions for computer and robot perception and action from the point of view of autonomous robot navigation. Included team lab projects.

Machine Learning

Machine learning techniques and applications. Topics include foundational issues; inductive, analytical, numerical, and theoretical approaches; and real-world applications. Included a team research and design project.

Advanced Programming Techniques for Engineering Applications

Course covers a number of programming techniques for distributed and parallel computing and other advanced methods, such as multiprecision arithmetic and nonblocking I/O.