HENGYI LIN

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Objective

Seeking software engineering internship in Summer 2019, available from May 2019

Education

Purdue University

Expected graduation: May 2020

- Master of Science in Electrical and Computer Engineering
- GPA: 3.57 / 4.00
- Related Coursework: Neural Networks, Computational Algorithm, Random Variables (In Progress), Distributed Systems (In Progress)

Purdue University

Graduated: May 2018

- Bachelor of Science in Computer Engineering
- GPA: 3.72 / 4.00
- Related Coursework: Python, Android Development, Data Structure, Computer Architecture, Compilers

Ongoing Projects

Omniscient Discord Bot (Python, Google Firebase) ***Dec 2017 --- Present***

- Implement asynchronous programming to enable text chatting feature
- Use Google Firebase to create, update and delete data in the database

Past Projects

Financial Data Trend Prediction (Python, Neural Network) ***Oct 2018 --- Dec 2018***

- Combined a linear classifier and a feed-forward deep neural network to predict the increasing or decreasing trend of financial data (using NASDAQ 100 dataset)
- Achieved a training and testing accuracy of around 85%

TADA App (Android) ***Jan 2018 --- May 2018***

- Added an additional feature that enables app users to track and visualize their weight trend over time.
- Implemented sqlite database to store, update and delete weight data

Virtual Sport (Embedded C) ***Sep 2017 --- Dec 2017***

- Programmed STM32F407 microcontroller using embedded C to bridge the communication between external hardware components and the corresponding software control
- Designed and introduced haptics feedback to the device with vibrational motors

Micro Compiler (Java) ***Sep 2017 --- Dec 2017***

- Developed a compiler using Java-based ANTLR as the parser to translate micro language (a new programming language similar to C) to assembly code

Work Experience

Purdue University, *West Lafayette, IN* ***Aug 2018 --- Present***

- Graduate Teaching Assistant
  - Work as a lab instructor for ECE 437, a senior-level class on computer architecture design
  - Mentor students on designing processors that apply computer architecture ideas such as pipelining, caching and parallelism
  - Assist professors to improve the course quality by collecting feedbacks and performance from students

Purdue University, *West Lafayette, IN* ***Jan 2015 --- May 2016***

- Undergraduate Teaching Assistant
  - Worked as a lab instructor for PHYS 172, an introductory physics course on mechanics
  - Assisted Graduate Teaching Assistants on mentoring students
  - Interpreted the visualization of physical models with VPython