Yuchen Wang

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Objective

Motivated information engineering student with experience in web development, machine learning and data science. Seeking to apply my skills in a software engineer internship.

Education

East China University of Science and Technology (ECUST) *Shanghai, China*

B.Eng. in Information Engineering *Sept. 2015 - July 2019*

- Overall GPA: 3.88 / 4.0 Major GPA: 3.95 / 4.0
- Ranking: 1 / 91

Work Experience

MetroData Technology Co., Ltd. *Shanghai, China*

Data Science Intern *July 2018 - Sept. 2018*

- Analyzed and visualized the qualities which define a good commercial center using machine learning.
- Investigated the properties of a region based on population structure, housing conditions and neighboring facilities of all kinds.
- Calculated the populations of 402 townships in 4 cities based on the data from the Sixth Census of China.

Selected Projects

Electroencephalography (EEG) Signal Classification using Deep Learning

Python (Keras, Numpy, Scipy)

- Sliced raw data in .mat format into individual trials, and passed them through a band-pass filter.
- Wrote scripts to train a Convolutional Neural Network to output binary classifications.
- Aggregated classification results to output the final predictions of what letters had been stared at.
- Achieved a testing accuracy of 92%.

DevelHub: A Social Network for Developers

JavaScript (Node.js with Express, React and Redux) & MongoDB

- Implemented RESTful style back end API routes dealing with requests for users, profiles and posts information.
- Managed the state of the whole application and the transitions among the states using Redux.
- Implemented user authentication using JSON Web Tokens (JWT).
- Displayed latest five repos of registered users using GitHub API.

Build a Computer Bottom-Up

Java & Assembly & Hardware Description Language (HDL)

- Constructed elementary logic gates using simple Nand gates, and built ALU and RAM based on them, in HDL.
- Constructed a whole 16-bit computer using these chips, in HDL.
- Wrote an assembler in Java to translate an assembly language called Hack to runnable machine code on this computer.
- Wrote a Virtual Machine Translator in Java to translate a VM Language to Hack Assembly Language.

Intelligent Cooling System: An STC89C52-Microcontroller-based and PID-powered system

C & Python

- Implemented hardware I/O, such as displaying surrounding temperature, data I/O with memories, etc. in C.
- Implemented user logic, such as navigating among menus, setting parameters with password authentication, etc. in C.
- Implemented a feature of getting temperature data and plotting in the PC using Python.
- Implemented a Proportional-Integral-Derivative (PID) controller in C to make the cooling fan adjust its speed dynamically.

Skills

Programming Python, Java, JavaScript (Node.js), SQL, HTML5, CSS3, C/C++

Libraries Express, React, Redux, Keras, Numpy

English Proficiency

- GRE: Verbal: 161 / 170, 88% Quantitative: 168 / 170, 94% Writing: 4.5 / 6, 82%
- TOEFL: Total: 113 / 120

Honors & Awards

Shanghai Scholarship, 2016-2017 (**1%**); ECUST "Qi Liu" Scholarship (**1%**); ECUST Top Grade Scholarship, 2016-2017 and 2015-2016 (**2%**); ECUST First Grade Scholarship, 2017-2018 (**5%**); ECUST Outstanding Student Award, 2017-2018 and 2016-2017.