Weiwei (Anna) Zhou

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Objective: To obtain an internship as a ***software engineer*** or ***web developer***

EDUCATION

University of California San Diego (UCSD), San Diego, CA ***Sep.2018 – Dec.2019(Exp.)***
Master of Science, Computer Science and Engineering

Beijing University of Posts and Telecommunications (BUPT), Beijing, China ***Sep.2014 - Jun.2018***
Bachelor of Engineering, Electronic Information Science and Technology, GPA:88/100, Rank:8/107

- Won scholarship for high academic performance in three consecutive years and awarded 'Beijing outstanding graduate'.

SKILLS

- *Language and Tool:* Python, C/C++, Ocaml, Prolog, SQL, MATLAB, Linux shell, Git
- *Front-End:* HTML, CSS, Bootstrap, JavaScript, jQuery, Semantic.UI
- *Back-End:* Node.js, express, MySQL, MongoDB
- *Competence:* Algorithm, Web Development, Database, Machine Learning

INTERNSHIP

QA Intern, Synchronoss Technologies (SNCR), Beijing Office ***Mar.2018 - Jun.2018***

- Designed, wrote and conducted front-end test cases using Jira with high coverage for four web mail applications, including cases for sanity test, regression test and smoke test, and analyzed test issues using Linux shell and Browser Developer Tools.
- Modified HTML, CSS and JS code to deal with front-end issues and flaws.
- Setup, upgraded and supported environment for testing and continue integration.
- Wrote test report, making suggestions for front-end and UI design.

PROJECT

Full Stack Project Collection (Deployed on Heroku) ***Oct.2018 - Jan.2019***

- *Talk-To-Me:* A diary record website built with front-end (HTML, CSS, JS), back-end (Node.js), server side (express) and NoSQL database (MongoDB), using Semantic.UI as front-end UI library and Jquery library.
- *Gallery:* Used RESTful Routing Technology to develop a photo gallery web application with the stack of Bootstrap, Jquery, express, node.js, MongoDB. The website is functioned with authentication and comments.
- *Action:* A to-do-list web application built with JQuery and Bootstrap library.

Type-inference algorithm for NanoML language ***Oct.2018 - Dec.2018***

- Write a type-inference algorithm for the NanoML language to run NanoML programs.
- Used Python to coordinate between OCaml and Prolog.

PUBG Finish Placement Prediction ***Nov.2018 - Dec.2018***

- Applied linear regression, neural network and light GBM model to predict the finish placement of PUBG match using scikit-learn and Pandas library, and discussed the difference based on different models.
- Established a prediction model with 0.0594 mean absolute error.

Diseases Diagnosis and Prediction based on Association Rules Mining Algorithm ***Mar.2018 - Jun.2018***

- Established a disease prediction and diagnosis model based on association rule mining algorithm in Python.
- Improved the operation process and data storage of classical APRIORI algorithm with 99.3% accuracy based on UCI Wisconsin breast cancer dataset.

RESEARCH

Institute of Network Sciences and Cyberspace, Tsinghua University (THU) ***Mar.2017 - Mar.2018***

- Completed DHCP & HTTP & authentication data analysis with machine leaning, using scikit-learn in python. The paper based on this research is accepted by LCN2018, IEEE.
- Paper: '*A Multi-dimension Measurement Study of a Large Scale Campus WiFi Network*'.
- Wrote a python program, using PyQt, which works as a demo to show the map of cyberspace.
- Assisted establishing and visualizing a new cyberspace coordinate system based on IP address and logical port using Matplotlib and Numpy, and researched on orthogonal cyberspace resource classification, completing mind map and pamphlet.

Institute of Network Technology, Beijing University of Posts and Telecommunications (BUPT) ***Oct.2015 - Mar.2017***

- Participated in the design of an automatic regulatory system, responsible for constructing a website platform using HTML, JS and JSP, together with MySQL.
- Connected multiple cameras to Raspberry Pi and realizing signal transmission and control of simulative sound, light and electronic system, and hardware management with GPIO in python.
- Participated in the design of a monitor for crowdedness observation, realizing the website construction with Django framework which allows users to observe both historic crowdedness curve and real-time situation at the station.
- Responsible for identifying the crowdedness through mathematical modeling and image processing using OpenCV in Python, evaluating the passenger flow at the transit stations to provide feasible suggestions on trip modes for users.