Jerry Pan

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Education

Duke University, Durham, NC **Expected**: May 2019
B.S. in Computer Science GPA: 3.895/4.00
Relevant Coursework: Design/Analysis of Algorithms; Computer Vision; Mobile Software Design; Database Systems; Artificial Intelligence; Adaptive Web Development; Data Structures and Algorithms; Computer Architecture; Discrete Math for Computer Science

Experience

Cisco Incoming Software Engineering Intern, Raleigh June – August 2017
Gruner + Jahr Software Development Intern, Beijing July - August 2016

- Developed front end and back end of a website that allows administrators of WeChat service accounts to edit their menu interface and upload to WeChat servers.
- Wrote code in JavaScript, jQuery, PHP, HTML, and CSS to provide a feature rich GUI for admins to store customized menu information in a SQL database.

Fuqua Business School Research Assistant, Duke University November 2016 - Present

- Building and testing different regression models to analyze 2016 NC election results.
- Scraped and parsed election data from the North Carolina election results website using Python.

Data Science Research (Data+ Program), Duke University May - July 2016

- Predicted future queue times at Disney theme parks using historical wait time and categorical data by building and testing autoregressive models with two other team members.
- Used Node.js to retrieve wait time data from Disney and store the data in a local SQL database.

Discrete Math Teaching Assistant, Duke University August - December 2016

- Helped students with questions in helper hours and on class discussion forum.
- Assisted with creating solutions for the homework alongside grading homework and exams.

Data Mining Research Intern, NC State University June - August 2014

- Clustered student written code by task through comparing differences between code blocks in code.
- Implemented the k-medoids clustering algorithm in Python as a potential clustering algorithm to use.
- Discovered that the symmetric difference of code blocks is significant in distinguishing student code.

Projects

Smart Recycler- HackDuke (Best Use of Microsoft API) November 2016

- Built a robot to sort trash and recycling using Microsoft's computer vision API with a group of three.
- Wrote Python code for object detection and image processing using the OpenCV package.

Convolutional Neural Network- Computer Vision October 2016

- Implemented a convolutional neural network in MATLAB to predict the MNIST database of handwritten digits with 97 percent accuracy.

Duke Textbook Exchange- Adaptive Web Development September - December 2015

- Developed a responsive website for textbook sale and exchange in a group of three.
- Wrote PHP code for the back-end features like user-sessions and database queries.

Activities

Duke IEEE, *Webmaster* October 2015 - Present

- Manages and updates website weekly in addition to writing weekly newsletters and leading projects.

Duke League of Legends Club, *President* March 2016 - Present

- Co-founded the club, which revolves around the popular video game League of Legends.
- Organizes and hosts gatherings and tournaments at Duke.

Skills

Technical Skills: Java, Python, HTML, CSS, PHP, JavaScript, MATLAB, MySQL, C, R, MIPS