JACOB CLOSE COMPUTER SCIENCE ENGINEERING

CONTACT

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EDUCATION

University of Michigan, College of Engineering
B.S Computer Science Engineering 2018
Minor In Business, Ross School of Business

SKILLS

PROGRAMMING: C++, Python
PYTHON: Flask, Pelican, Networkx, Matlibplot, Pandas, Seaborn
WEB DEVELOPTMENT: HTML, CSS, Flask, Angular JS, D3.js
TESTING: Selenium, Protractor, TestNG, Jasmine

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Computing for Computer Scientists
- Introduction to Modeling
- Models of Social Information Processing
- Making Financial Decisions
- Entrepreneurial Design: Web Applications and the Internet of Things
- Design Process

EMPLOYMENT

University of Michigan, Ross School of Business — Ann Arbor, MI
Assistant in Research — Apr 2016 to Jun 2016, Sep 2016 to Current
- Conducted and presented survey on the state of the art computer vision and machine learning techniques and methodologies utilized for feature extraction and image processing.
- Researched, analyzed, and implemented various computer vision algorithms using python and Microsoft's computer vision SDK for a collaborative project under marketing, statistics and sociology professors.

Kronos Incoporated — Chelmsford, MA
Software Performance Engineering Intern — Jun 2016 to Aug 2016
- Developed protractor testing framework using the page object model for maintainable E2E testing.
- Implemented timing function to efficiently record and visualize the performance of multiple actions using Node.js and Python.
- Created an automatic build process using Grunt and Jenkins.
- Gained experience following Agile and sprint methodologies and industry best practices with git.

PROJECTS

Reach (Team)
- Utilized design methodologies to design and develop an web app that tells users when their friends are within a certain distance.
- Implemented prototype using HTML, Bootstrap, Flask, Angular JS, and Google Maps API.

Related Artist Network (Personal)
- Created an interactive network visualization of related musics Artists using python, Spotify API, NetworkX, HTML and D3.js

City of Newton Student Commuter (Personal)
- Collaborated with the City of Newton to estimate the amount of CO2 produced by students' commute.
- Provided data analysis using Google Maps Distance Matrix and Geolocation API and presented visualization created with Leaflet.js to support the proposal of new bike lanes and sidewalk repair.

Accenture U.S Innovation Challenge (Team)
- Led interdisciplinary team to research, construct and present a business strategy for the prevention of food waste by grocery retailers.
- Selected as second place to compete in national quarterfinals.

Blog (Personal)
- Implemented and maintain a blog using the python pelican framework.

ACTIVITIES

Serial Innovator Camp (Procter & Gamble, Intel, Microsoft), · — Feb 2015
- Advanced problem definition and solving techniques while working with a interdisciplinary team.

Petrovich Emerging Leader Experience (PELE) — Sep 2015 to Dec 2015
- Selected as 1 of 34 students to participate in sophomore year college leadership program.

Theta ChiRecruitment Chair — Oct 2014 to Oct 2015
- Elected to oversee 3 recruitment periods, receiving 20 new members after narrowing down over 250 interested participants.
- Selected and managed a committee of nine.
- Developed strong interpersonal and communications skills.

VOLUNTEERING

Accelerate CS (Google), · Instructor — Sep 2015 to Current
- Lead weekly lesson at Ann Arbor middle school to teach student's computer science skills.