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Joyce Lee

EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor of Science in Engineering in Computer Science — *Cumulative GPA - 3.501/4.0*
Minor in Art and Design — *Graduation - May 2020*
Dean's Honor List

CS Coursework: Web Systems, Computer Vision, Information Retrieval, Database Management Systems, Data Structures & Algorithms, Introduction to Computer Organization

Art Coursework: Build Web Interfaces, Discursive Design, Typography, 2D Design

INTERNSHIPS

Gap Inc. | *Software Engineering Intern*

San Francisco, CA | June 2019 – August 2019

- Developed features for the Gap Inc. iOS app that utilized address autocomplete and address validation services to help customers to checkout more efficiently
- Used Swift to create a utility-tool for Old Navy customers that interacts with an associate tool developed in React, Node, Express, and MySQL resulting in a reduction of physical in-store lines at Old Navy
- Designed the UI and participated in store-intercepts and individual interviews to ideate on improving personalization within the Gap application

PROJECTS

Portfolio Website | *Javascript, React, Node, Express, Heroku*

June 2018 - Current

- Built dynamic personal portfolio website using React, Express, and Node to display personal projects and experience
- Supported with a database in PostgreSQL and deployed to Heroku

EAT: Eat in All the Time | *Swift, Core Data*

Denver, CO | July 2018 – September 2018

- Constructed an iOS application with Swift that produces a list of potential recipes based on a list of ingredients the user inputs
- Developed the back-end database using Core Data that organizes and generates recommended recipes and a favorites feature

Certec Research Project | *C, Arduino, Tinkercad*

Lund, Sweden | May – June 2018

- Used C and RFID technology to prototype a device for self-guided museum tours to reduce the number of employees needed
- Designed, coded, and prototyped the object based on the needs of the museum, including limited electricity, ease of use, and portability
- Used Tinkercad to design the final shape of the device after multiple iterations after various feedback sessions with museum directors and associates

Panoramic Recognition & Image Stitching | *Python, Skikit-learn, cv2, numpy*

Ann Arbor, MI | February - March 2018

- Used python and SIFT feature detector and descriptor to implement a panoramic recognition algorithm to automatically identify images belonging to the same scene
- Implemented a RANSAC algorithm to recursively stitch images together resulting in a set of full panoramas given a set of images

SKILLS

Technical Languages: C++, C, Python, Swift, JavaScript
Technologies: React, Node, MySQL, HTML5, CSS3, PyTorch, Hadoop, Flask
Adobe: InDesign, Illustrator, Photoshop

LEADERSHIP

Korean Science and Engineering Association (KSEA) | *Design and Technology Chair*
UMMA Student Engagement Council | *Programming Committee Member*