

Yanyi (Amber) Zheng

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EDUCATION

University of Michigan

B.S. in Computer Science

Ann Arbor, Michigan

Dec. 2018

Coursework: Data Structures and Algorithms, Mobile App Development, Web Databases and Information Systems, Database Management Systems, Computer Security, Computer Organization

PROFESSIONAL EXPERIENCE

Face++

Software Engineer Intern

Beijing, China

May 2018 – Present

SKILLS

Programming Languages: C++, C, Python, Java, JavaScript, Swift, SQL

Designs and Frameworks: HTML5, CSS, Flask

Additions: React JS, Git, Security, Network, Android development, IOS Development, Linux

PROJECT EXPERIENCE

University of Michigan

Insta485 (Web Development Project)

Ann Arbor, Michigan

Jan. 2018 - Present

- Built REST APIs using Python/Flask; Implemented JavaScript programs to make requests to the REST API to trigger the updates on the user interface
- Built a backend database using SQL to store and manage data related to this website.
- Wrote HTML files as web templates to create the website pages; CSS files were included for styling.
- Used the Flask-session to manage the user logins and logouts on the server side.
- End goal of this project is to implement a database-backed interactive website application that allow users to share photos and videos and interact with other users (an Instagram clone).

University of Michigan

Zookeeper (C++ Project)

Ann Arbor, Michigan

May 2017 – June 2017

- Implemented a C++ program that minimizes the expenses of a zoo by 1) devising a path to each animal cage to deliver food while minimalizing the distance of the path, and 2) constructing canals to providing water to all cages while minimalizing the total canal length.
- Program achieves the first goal by constructing a Minimum Spanning Tree using Prim's algorithm, and the second by finding an optimal Traveling Salesperson Tour using the Branch and Bound algorithm.

ACTIVITIES

Girls in Electrical Engineering and Computer Science (GEECS)

Marketing Committee

Ann Arbor, Michigan

Jan. 2017 – April 2017

- Engage in social media platforms, give presentations intro-level EECS classes, and participate in student organization expos to increase awareness and involvement of GEECS on campus.