# Hanchi Zhang

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## Education

**University of Michigan Ann Arbor**, Ann Arbor, MI — Sept. 2017 - May 2021

*B.S.* in Computer Science / Data Science — GPA 3.84/4.00

## Experience

**Perch Research** Ann Arbor, MI — Dec. 2018 – Present

*Frontend Developer* HTML / CSS / javascript / React

- Developed frontend components such as an editable profile tab for a website that is aimed to provide service to both desktop and mobile end users utilizing React and various node.js packages such as sass
- Gained experience with both writing seperate CSS files and inline styling in the JSX environment while using various CSS features including flexbox and grid over verbose javascript code to achieve clean code

**Beijing Xiaomi Technology** — Jun. 2018 – Aug. 2018

*Summer Software Development Intern* Python / Java

- Developed an Android app demo providing intelligent sketch of MIUI users' daily behaviors e.g. app usage
- Set up a simulated server to communicate dummy data with the app using Python and flask
- Optimized the hyperparameters of a deep neural network of the ad system and increased the AUC by 1%
- Implemented more complex neural network structures such as RNN/W&D and tested their performance

## Skills

- Programming Languages: C++, C, Python, Java, HTML, CSS, javascript, SQL, LaTeX, Swift (Limited)
- Tools: Git, Bash, Tensorflow, React, Node.js, jQuery
- Other: Fluent in Chinese and English

## Projects

**U of M Blue Bus Time Checker** Python / pyQuery / AWS — Feb. 2019

A Makeathon event project sponsored by Amazon co-developed under 24 hours

- Developed a fully-deployable / demo-able Alexa skill that informs user the time of the next bus the user can catch and the time to walk to the closest bus station utilizing Google Matrix APIs
- Utilized a python library Chalice to develop a backend API that can be accessed in the frontend python script and can be easily deployed to AWS Lambda
- Provided data by writing a simple crawler that utilizes requests / pyQuery / BS4 to access the bus time

**Multithreaded Library / Disk Scheduler** C++ — Jan. 2019 – Feb. 2019

- Implemented a thread library utilizing linux system infrastructures including ucontext.h that supports multithreading across multiple simulated CPU cores
- Provided full multithreading support for library interfaces such as and mutex/condition queue
- Implemented a disk scheduler program that reads a series of input representing the track number of disk requests that will be executed synchronously by a disk servicer

**Movie Archive Tracker** C++ — Sept. 2018 – Oct. 2018

- Implemented a thread library utilizing linux system infrastructures supporting multiple simulated CPUs
- Provided full multithreading support for library interfaces such as thread.join() and mutex/condition queue
- Implemented a disk scheduler program that reads a series of input representing the track number of disk requests that will be executed synchronously by a disk servicer in SSTF order