ALEXANDRA WU

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EDUCATION

University of Michigan, Ann Arbor, MI *Sept 2017 – Dec 2020*
Bachelor's Degree in Computer Engineering *GPA: 3.71/4.00*
Relevant Coursework: Autonomous Robotics, Embedded Systems, Signal and Systems, Conversational AI, Computer Organization, Data Structures & Algorithms, Electrical Circuits, Logic Design

Shanghai Jiao Tong University – Joint Institute, Shanghai, China *May 2018 – Aug 2018*
Study Abroad

EXPERIENCE

Learning A-Z, Ann Arbor, MI *May 2019 – Aug 2019*
Software Engineering Intern

- Developed a student login system feature with QR codes using AngularJS, PHP and MySQL
- Strengthened ability to write clean code by exchanging constructive code reviews with other interns
- Presented to company employees/PMs on experience contributing to an open source project, Oppia
- Isolated intern feature using LEMP stack on Digital Ocean – see it on *alexwudemo.com*

Lurie Nanofabrication Center, Ann Arbor, MI *Sept 2017 – Sept 2018*
Laboratory Assistant

- Maintained Parylene deposition tool in order to provide lab users satisfactory results in their processes
- Improved outdated furnace documentation system, allowing for easy access to crucial data
- Collaborated with staff members in running the lab with tasks such as stocking and store management

EECS 370 – Intro to Computer Organization Staff, Ann Arbor, MI *Sept 2019 – Present*
Instructional Aide

- Led one-hour discussions helping students further understand and apply computer organization concepts
- Helped students one-on-one in office hours with debugging coding projects in C and doing problem sets

PROJECTS

Multidisciplinary Project – Learning A-Z *Jan 2019 – Dec 2019*

- Developed an automatic speech-to-text assessment tool to aid teachers in improving elementary literacy
- Updated teacher-facing side of project to effectively display results of student recordings
- Coordinated with UX students in programming and designing an effective report of assessment results

Emergency Response Tweet Classification – Girls Encoded Research *Jan 2019 – May 2019*

- Researched NLP methods under Dr. Kummerfeld in order to classify Twitter emergency response posts
- Applied text classifiers and processing pipelines supplied by the Python library *spaCy* in labeling tweets with level of urgency and associated disaster event

Magneto-Paint – Embedded Systems (EECS373) *Sept 2019 – Dec 2019*

- Built a paint application controlled using a magnet and multiple sensors using C and Python
- Used magnetometers, pressure sensors, an Xbee, LED lights to build the embedded system
- Implemented 2D tracking code in Python to locate magnet given magnetic vector measurements

SKILLS

Program Languages: *C/C++, AngularJS, PHP, MySQL, Python, Java, Verilog, React Native*
Technologies: *IntelliJ, Git, Digital Ocean, Matlab, SolidWorks, Vivado, Multisim, LTSpice*