XiaoXiang Zhong

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EDUCATION

University of Michigan   *Ann Arbor, MI*

B.S.E in Computer Science, May 2020

B.S.E in Electrical Engineering, May 2020

- **Relevant Courses:** Game Development, UI Design, Cryptography, Machine Learning, Database Management Systems, Operating Systems, Data Structures and Algorithms

EXPERIENCE

Amazon Software Development Engineer Intern *(Jun 2020 - Aug 2020)*   *Detroit, MI*

- Team: Amazon Marketplace Web Service API
- Will expand on Amazon MWS's Subscription API Service

Siemens Healthineers Software Application Intern *(May 2019 - Aug 2019)*   *Issaquah, WA*

- Bridged a reporting system to an ultrasound medical instrument GUI to allow fast and large data generation for efficient model testing
- Modified existing system to allow successful communication with outdated C++ and C# code to repair and increase features in the development tool
- Reviewed and fixed various ultrasound machine defects by revising XAML and C# code to improve and increase ultrasound machine functionalities

PROJECTS

Convoluted Cinema Experience *(Class Project)*

- Classified movies through *supervised* learning using convolutional neural networks using rectified linear unit activation function and recreating each layer of the CNN
- Classified movies through *unsupervised* learning using autoencoders to reduce dimensionality, and reconstruct it to find the closest group it belongs to using pytorch

Supervised Verification of Movies *(Class Project)*

- Classified movies based on the sentiment of a list of reviews through feature extraction and a list of sentimental word dictionary
- Trained SVMs by using 5-fold cross validation to find the best fitting kernel (linear or quadratic) through scikit learn and stochastic gradient descent

SQL + MongoDB Tables (Class Project)

- Explored SQL language connecting and retrieving tables through functions and views
- Explored MongoDB by retrieving data using MongoDB integrated with Javascript

NodeMCU Internet of Things *(Side Project)*

- Integrated C and C++ code with Internet of Things WiFi Chip to receive and execute commands from the computer to the circuit board

SKILLS

Programming Skills

- C++, SQL, C, C#, Python, Java, HTML