

Angel (Xiaowen) Zhang

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<http://www.angelzxw.com/home>

❖ Education

- **Yale University, Graduate School of Arts & Sciences**, New Haven, CT
Master of Science, Computer Science 05/2018
Selected Coursework: Database Systems, Design the Digital Economy, Distributed Systems, and Adv Mgt of Software Dev
- **The Cooper Union, Albert Nerken School of Engineering**, New York, NY
Bachelor of Engineering, Electrical Engineering Cumulative G.P.A: 3.81/4.0, Summa Cum Laude 05/2017
Tau Beta Pi Engineering Honor Society, *Recording Secretary*
Institute of Electrical and Electronics Engineers (IEEE), *Member*
Honors: Dean's List, all Semesters; **Full-tuition Scholarship; Hoffman Beller Prize**, for merit in engineering studies
Selected Coursework: Artificial Intelligence-IS, Computer Graphics, and Software Eng & Large System Design

❖ Work Experience

- **The Cooper Union for the Advancement of Science and Art**, New York, NY
MATLAB Instructor, Electrical Engineering Department 01/2016-05/2017
-Instructed students on using MATLAB, a leading computational mathematics platform for engineers and scientists.
-Developed syllabus and select problem sets; assigned and graded homework throughout the course.
- **Intel Corporation**, Shanghai, China
Summer Intern, Platform Solution Architect (PSA) / Internet of Things (IoT) Group Summer 2015
-Collaborated with multi-company session for IoT Demo Preparation at Intel Developer Forum (IDF) 2015 San Francisco.
-Designed an architecture for Big Data system and provided platform solutions including hardware and software approaches to clients.
- **INSIGMA Technology Co. Ltd.**, Hangzhou, China
Summer Intern, Research and Development Department Summer 2014
-Customized the design of ARM cluster for the development of image processing software under the supervision of the head of hardware department.

❖ Projects - <http://www.angelzxw.com/home/#projects>

- **Artsify, Eng & Entrepreneurship, Cooper Union** Spring 2017 - Present
-Established a Startup and implemented a web service product, Artsify, which is an online gallery and marketplace optimizing distribution of artwork. Delegated team members to finance, marketing, and software developments.
-Collaborated in pitching the business case. One of four teams in the SASEtank 2017 Finalists, an entrepreneurial competition.
- **Dynamic Environment Mapping, Computer Graphics, Cooper Union** Spring 2017
-Generated an interactive environment mapping application using JavaScript and WebGL, which illustrates surrounding scene and moving cubes reflected on the surface of an object.
- **Rubik's Cube, Computer Graphics, Cooper Union** Spring 2017
-Created an interactive Rubik's cube application using JavaScript and WebGL, which allows a user to try to solve this three-dimensional puzzle.
- **Coopa: The MicroMouse, Senior Electrical Engineering Projects, Cooper Union** Fall 2016 & Spring 2017
-Originated and built a small robot mouse, which is capable of autonomously solving a 16-by-16 random maze in the Micromouse Competition hosted by IEEE.
-Implemented a maze solving algorithm based on Flood Fill Algorithm, and invented a calibration algorithm in Arduino.
- **Othello, Artificial Intelligence-Independent Study, Cooper Union** Fall 2016
-Produced a game-playing program, which plays Othello against users, based on the Minimax Search with Alpha-Beta Pruning Algorithm in Java.
- **Neural Network, Artificial Intelligence-Independent Study, Cooper Union** Fall 2016
-Developed a training program of a neural network based on Back-propagation Algorithm in C++.
- **Set Game Project, Software Engineering and Large System Design, Cooper Union** Spring 2016
-Led design of system architecture based on client-server model, constructing database in MySQL, implementing game website in JSP, and creating game-login GUI in Java swing.
-Designed and implemented a competitive card game, SET, allowing multiple users across the Internet to customize and play their games in real time.

❖ Patent

- Forthcoming patent (co-inventor), *Adaptive Workload Distribution for Network of Video Processors*. Intel Corporation, Shanghai, China, 2015

❖ Skills

- Programming Languages: Java, C/C++, JavaScript, and MATLAB
- Software Knowledge: Microsoft Office, Eclipse Java, Xcode, and Adobe Dreamweaver