Angel (Xiaowen) Zhang

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Education

Yale University, Graduate School of Arts & Sciences, New Haven, CT *05/2018*

- Master of Science, Computer Science
- **Selected Coursework:** Database Systems, Distributed Systems, Intelligent Robotics, and Management of Software Development

The Cooper Union, Albert Nerken School of Engineering, New York, NY *05/2017*

- Bachelor of Engineering, Electrical Engineering Cumulative G.P.A: 3.81/4.0, Summa Cum Laude
- **Honors: Dean's List**, all semesters**; Full-tuition Scholarship; Hoffman Beller Prize,** for merit in engineering studies
- **Selected Coursework:** Artificial Intelligence, Computer Graphics, Software Eng & Large System Design, and Entrepreneurship

Computer Skills

- Programming Languages: Java, C/C++, JavaScript, HTML, CSS, NodeJS, SQL, and MATLAB
- Software Knowledge: AWS Cloud 9, Heroku, GitHub, Eclipse Java, Xcode, Adobe Dreamweaver, and Microsoft Office

Technical and Management Work Experience

Artsify, New York, NY

Co founder & Software Developer *01/2017 - Present*

- Designed and marketed a web service product, Artsify, which is an online fine arts marketplace that aims to simplify the art sale process. Created a NodeJS application based on Model-View-Controller(MVC) structure. Designed the User Interface in HTML, CSS, and JavaScript. Used PostgreSQL database to store and manage information about art, artists, users, and orders. Launched the minimum-viable-product(MVP) in May, and continued to maintain the website service and update the product features weekly.
- Delegated team to financial stability oversight, marketing campaign design, and software developments. Connected with potential influencers, suppliers, and clients. Conducted market researches, and competitive analysis. Tested business hypotheses, and quickly adapted feedbacks. Collaborated and performed pitch to prospective artists and startup coaches.
- One of four finalists in the SASETank 2017 entrepreneurial competition; presented in the national SASE conference in October.

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. Developed syllabus through discussions with the department Dean, prepared weekly presentations for a class of 15 students, and hosted office hours. Designed, assigned and graded select problem sets throughout the course. Cooperated students' feedbacks into course schedule.

Intel Corporation, Shanghai, China

Summer Intern, Platform Solution Architect (PSA) / Internet of Things (IoT) Group *Summer 2015*

- Collaborated with multi-company session for developing a live interactive IoT Demo Preparation in an application of a network of video processors at Intel Developer Forum (IDF) 2015 San Francisco.
- Interacted directly with clients through weekly meetings, modified the architecture design for Big Data system, and provided customized platform solutions including hardware and software approaches to clients.

Engineering Projects - http://www.angelzxw.com/home/#projects

***NinjaBrite**, Advanced Management of Software Development, Yale University* *Fall 2017*

- Organized a team of four, and created an online event management system, hosted by Heroku. Implemented a NodeJS application based on MVC architecture. Designed the interface in HTML, CSS, and JavaScript. Stored the user data in a PostgreSQL database.
- Continuously tested each release against automated tests along with SQL injections, CSRF, and XSS. Applied Google Analytics to conduct an A/B test and perform traffic analysis. Practiced SCRUM and Agile software process with effective use of Git for version control and TrelloBoard for managing product and sprint backlogs. Hosted weekly meetings and generated sprint reports.

***Research Project: Blockchain in Smart City**, Distributed Systems, Yale University* *Fall 2017*

- Worked in a team of two, and deployed Blockchain on a peer-to-peer system in C++, considering a specific Smart City scenario, where hashed information of the image and video from surveillance cameras are managed and shared by multiple IoT nodes for decentralization and public auditing purposes.
- Created a real-time web monitoring application to visualize all the information contained in the Blockchian blocks.

***Coopa: The MicroMouse**, Senior Electrical Engineering Projects, Cooper Union* *Fall 2016 & Spring 2017*

- Led a team of three, and designed the system architecture of a robot mouse, cooperating locomotion, sensing, control, and software subsystems so that the robot autonomously solves a 16-by-16 random maze in the Micromouse Competition hosted by IEEE.
- Invented a motion calibration algorithm in Arduino, and implemented a maze solving algorithm based on Flood Fill Algorithm.

***Rubik's Cube**, Computer Graphics, Cooper Union* *Spring 2017*

- Created an interactive Rubik's cube application using JavaScript and WebGL, and developed an algorithm to perform smooth animations when any user-specified planes is rotated in any directions, or when the cube is displayed from any desired angle.

***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. Designed a game GUI in Java Swing, indicating scores, a log of both players' moves, and next possible moves.

Patent

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