

Arnold Zhou

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Education

<http://www-personal.umich.edu/~ahzhou/index.html>

University of Michigan, Ann Arbor, MI

September 2014 – April 2018

Major: Life Sciences Informatics

Minor: Applied Statistics

Relevant Coursework: Discrete Mathematics, Data Structures and Algorithms, Introduction to Statistics and Data Analysis, Foundations of Computer Science, Introduction to Computer Organization

Shanghai Jiao Tong University, Shanghai, China

Summer 2015

Coursework in Computer Science and Humanities

Work Experience

Software Engineering Intern at QuickenLoans; Detroit, MI

May 2017 – August 2017

Technology: .NET, C#, Angular, Angular 4, Web API and MVC with Entity Framework, Automapper, Dapper ORM, HTML5, Bootstrap, SQL Server, Git, Agile Development

- Led implementation of an internal web email analysis site for all application owners resulting in a more efficient workflow for maintaining application errors
- Refactored SQL storage designs of all on call groups and applications for better application stability
- Coded alternating interactive animations and splash pages to promote holiday awareness based on time of year

WebMaster and Developer at Spark Electric Motorcycle Club; Ann Arbor, MI

December 2016 - Current

Technology: Javascript, HTML5

- Updating site features through creation of interactive and dynamic modules for a more modern design to be viewed by major sponsors
- Oversee stability of the site through unit testing and data gathering from feedback

Software Engineer Intern at AET Integration; Troy, MI

June 2016 – August 2016

Technology: WPF, XAML, C#, MVVM, Mercurial

- Programmed customizable WPF graphing modules for the visualization of given welding data for use in major car companies
- Optimized logic commands through multithreading to increase efficiency of saving and loading data
- Rewrote the WPF application interface for more intuitive and useful data interpretation through analysis of the most popular features

Research Assistant at the University of Michigan; Ann Arbor, MI

September 2014 – March 2015

Technology: MATLAB

- Created a MATLAB data analysis program software to solve the nearest neighbor problem
- Optimize processing times through code vectorization which improved processing speed by more than 20%.

Project Experience

Photography Website, Personal Project | [arnoldzhou.photos](#)

2017

Technology: HTML5, Ajax, JavaScript, PHP, AWS, Python

- Developed algorithm to dynamically load and convert specified images drawn from a database for a cycled view enhancing aesthetic marketing for professional photographed images

Rooms Unity Project, Virtual Reality Hackathon and Workshop; Boston, MA

2015

Honorable Mention: Best use of Google Cardboard

Technology: Unity 3D Game Engine, Visual Studio, C#

- Produced an interactive and immersive virtual reality environment for game play using 3D Unity

Jiffy Print Website, Hack Northwestern (WildHacks) 2015, Evanston, IL

2015

Walgreens Best Photo API Integration Prize

Technology: HTML, CSS, JavaScript, Walgreens API, hosted by IBM Bluemix

- Built a platform for image transfer from the user to any Walgreens location through the Jiffy Print website to easily print any image

Brick Breaker Iteration, Arduino Project

2014

Technology: Arduino, C, Adafruit LED Library

- Generated an Arduino game with custom levels and difficulties mimicking the classic brick breaker game

Skills and Interests

Technology: C++, C#, C, .NET, WPF, HTML5/CSS, Python, R, MATLAB, JavaScript, Angular, Bootstrap, NPM, SQL Server, Unity 3D Game Engine, Arduino, Entity framework, ASP.NET MVC and Web API, Ajax, Agile Development, NUnit unit testing, Dapper ORM, Automapper, Visual Studio, Git, Mercurial, Linux, Adobe Suite

Extracurricular: Michigan Daily Newspaper Staff Photographer, Couzens Hall Active Minority Ethnic Organization Executive Board

Languages: Intermediate in Spanish, Intermediate in Chinese

Interests and Activities: Photography, Tennis, Skiing, Piano, Trumpet