Edmond Wen

626-354-0245 | edmondywen@gmail.com | US Citizen

Education

University of California, Los Angeles (UCLA) — Los Angeles, CA
Pursuing: B.S. Computer Science — *Sept. 2020 - June 2024*

San Marino High School — San Marino, CA
GPA: 4.417/4.0. CSF Sealbearer — *Jan. 2017 - May 2020*

Relevant Coursework

Com Sci 1 - Computer Science Seminar | Fall 2020 | Study of leading computer science topics (IP Address Lookup, DMA/RDMA) presented by industry and academic professionals
Com Sci 31 - Intro to Computer Science | Fall 2020 | Study of theory, applications, and object-oriented programming in C++

Research Experience

Caltech STEM Research Course - Machine Learning Division — Aug. 2018 - June 2019
California Institute of Technology — *Pasadena, CA*

- Reviewed multiple machine learning algorithms (Linear Regression, Expectation Maximization, K-Means, K-Nearest Neighbors), techniques (Gradient Descent), and concepts (Zachary's Karate Club, The Friendship Paradox) under the guidance of Dr. Babak Hassibi and his graduate students
- Developed a Python program in Pycharm with a team to play "Dots and Boxes" against a human or another machine in real-time as a proof of concept for the Monte Carlo Tree Search and Q-Learning algorithms

Extracurricular Activities

Engineering President — June 2019 - June 2020
FRC Robotics - Team 1160 - Titanium Robotics — *San Marino, CA*

- Oversaw all engineering operations for over 50 members broken into 5 subdivisions: mechanical, electrical, computer-aided design (CAD), programming, and competition strategy. Facilitated workflow such that each subdivision's progress could be integrated cohesively into one competition robot that met budgetary and competitive restrictions over the course of six weeks
- Orchestrated the free of charge 2019 Titanium Robotics Summer Camp for roughly 40 San Marino High School and Huntington Middle School students by syncing curriculum between subdivisions and planning schedules, allowing every student to survey each robotics field

Programmer — Fall 2017 - June 2019
FRC Robotics - Team 1160 - Titanium Robotics — *San Marino, CA*

- Used Java and WPILIB command-based programming to create robot code for a specific set of tasks within a 6-week time frame. Example tasks include: vision-based targeting, autonomous operation, and shooting
- Notable Awards: 2019 Idaho Regional Semifinalist | 2019 Orange County Regional Motorola Quality Award

Intern — Summer 2019
Montreux Jazz Festival — *Montreux, Switzerland*

- Complemented and shadowed grad students performing vision processing analysis on stage-show recordings, creating heat maps of where audience attention was focused during performances in order to facilitate a pleasant live and digital viewing experience

Intern — Summer 2019
DARPA Robotics Challenge — *Pasadena, CA*

- Used SOLIDWORKS and Cura to CAD/3D-print parts for an autonomous, subterranean explorer robot in Professor Burdick's Lab at Caltech for the 2019 DARPA Robotics Challenge

Technical Skills

Languages: **Most familiar** | Python, C++. **Somewhat familiar** | Java. **Learning** | HTML/CSS, JavaScript.
Developer Tools: PyCharm, VS Code, Git, XCode, Visual Studio
Libraries: **Somewhat familiar** | pandas, NumPy, Matplotlib. **Rusty** | openCV, WPILIB
Other: LaTeX, Word, Excel, Solidworks, Cura