

Taylor Wong

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EDUCATION

University of San Diego (USD) Shiley-Marcos School of Engineering

May 2019

Bachelor of Arts in Computer Science

GPA: 3.73

Minors in Business Administration and Mathematics

- Honors: Dean's List, First Honors, Eta Kappa Nu Honor Society (top 25% of engineering students)

Relevant Courses:

- Neural Networks
- Data Structures and Algorithms
- Automata, Computability and Formal Languages
- Object-Oriented Design
- Organizational Behavior
- Computer Systems

WORK EXPERIENCE

Clarity Design | *Software Engineering Intern*

Jun. 2018 – Aug 2018

- Restructured SQL database system for optimization, reduced the number of tables needed by 25%
- Designed graphic user interface for the corporate ASP.NET website to improve overall usability

Hands-On Technology | *STEM Curriculum Developer*

Apr. 2018 – Jul. 2018

- Strategically constructed and designed computer science curriculum for a one-week camp that served as STEM exposure to elementary and middle school students

SciRobot | *Mobile Interaction Design Intern*

Mar. 2017 – Aug. 2017

- Developed a cross platform app with music/movement therapy packages to support Activity Companion Robot
- Collected physical mobility data from 60+ participants in assisted living facilities to speed up prototyping

TECHNICAL PROJECTS

Senior Design Project | *L3 Technologies Sponsored*

Sep. 2018 – Present

- Creating a stable and robust control system to improve the calibration of an interferometer
- Collecting data and analyzing the effect of amplitude, phase and polarization using MATLAB

Perceptron Neural Networks Program | *Java*

Oct. 2018

- Engineered an artificial neural network system for classifying letters using the perceptron learning rule

Automaton Conversion Program | *Python*

Mar. 2018

- Parsed a given regular expression into a syntax tree and constructed an equivalent NFA and DFA

Conway's Game of Life Program | *C*

Dec. 2017

- Developed a multi-thread implementation to optimize process runtime in virtual memory on Linux

SKILLS

Programming Languages

- *Advanced:* Java, Python, C
- *Proficient:* JavaScript, Swift, SystemVerilog, SQL, HTML, CSS, XML
- *Familiar:* C++, C#, LaTeX, MATLAB

Software Tools: Bash, MS SQL Server Management, ModelSim, Intel's Quartus Prime Lite, Git/Github, Bitbucket

Design & Development: Android Studio, Xcode, Adobe Illustrator, Bootstrap, Visual Studio

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Association of Computing Machinery | *President*

Apr. 2018 – Present

- Oversee five executive board members and preside over all general body meetings and related affairs
- Develop a strategic plan and stronger foundation for the organization increasing member participation by 200%

Mortar Board Senior Honor Society | *Chair of Service and Philanthropy*

Apr. 2018 – Present

- Organize fundraisers and outreach events collaborating with USD student organizations
- Selected as one of 30 students among applicants from the top 35% of third-year USD students

Residential Life at USD | *Resident Assistant*

Aug. 2017 – May 2018

- Supervised a floor of 30 students as a positive mentor, confidant, and Campus Security Authority

INTERESTS: Guitar | Music | Sketching | Photography | Rock Climbing | Hiking | Dance