

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: 3.65

Minors in Business Administration and Mathematics

- Honors: Dean's List, First Honors (Fall '16 – Fall '18), Eta Kappa Nu Honor Society
- International Collegiate Programming Contest (ICPC), 2018 Southern California Regional Contest

Relevant Courses:

- Neural Networks (Java, Python)
- Networking (C, C++, Python, Java)
- Data Structures and Algorithms (Java)
- Object-Oriented Design (Python)
- Digital Hardware (SystemVerilog, MIPS)
- Computer Systems (C, x86-64)

WORK EXPERIENCE

University of San Diego ITS | Web Developer

Feb 2019 – Present

- Designing and maintaining the USD's Equinox dashboard using Cascade Server content management system

Hands-On Technology | STEM Curriculum Developer

Apr 2018 – Jul 2018 / Feb 2019 – Present

- Creating computer science curriculum for summer camps and workshops that serve as STEM exposure to elementary and middle school students, topics include Virtual Reality and Android mobile applications

Clarity Design | Software Engineering Intern

Jun 2018 – Aug 2018

- Restructured SQL database system for optimization, reduced the number of tables needed by 25%
- Designed user interface for the corporate ASP.NET website to improve overall usability (HTML5/CSS3)

TECHNICAL PROJECTS

Senior Design Project | L3 Technologies Sponsored

Sep 2018 – Present

- Designing and implementing a PID controller for interferometer stabilization and robustness
- Exploring machine learning capabilities to increase the level of control for a given environment

Web Server | C++

Feb 2019

- Built a web server program that uses the sockets API to reliably communicate over a network with TCP

Perceptron Neural Network | Java

Oct 2018

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

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, C++, x86-64, HTML, CSS
- *Proficient:* C#, SQL, JavaScript, Swift, SystemVerilog, MIPS
- *Familiar:* XML, LaTeX, MATLAB

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

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

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 doubling member participation

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