Taylor Wong

San Diego, CA | (925) 482-4482 | taylorwong@sandiego.edu

linkedin.com/in/taylor-wong | github.com/wongtaylor | wongtaylor.github.io/portfolio

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, Eta Kappa Nu Honor Society (top 25% of engineering students)
- International Collegiate Programming Contest (ICPC), 2018 Southern California Regional Contest

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*

- 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

Weather Sensor Network Program | *C++* *Feb. 2019*

- Reverse engineered a client-server network using Wireshark and knowledge of sockets and protocols

Perceptron Neural Network Program / *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++
- *Proficient*: JavaScript, Swift, SystemVerilog, SQL, HTML, CSS, XML
- *Familiar*: C#, LaTeX, MATLAB

Software Tools*:* Bash, Keras, SQL Server Management Studio, ModelSim, Intel's Quartus Prime, 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