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**TRISHA TONG**

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**EDUCATION**

**University of California, San Diego** *Expected – June 2025*

*Bachelor of Science in Computer Science, Minor in Business*

Relevant Coursework: Software Engineering, Advanced Data Structures and Algorithms, Object-Oriented Design

**SKILLS**

**Programming/Languages:** Java, Python, C, C++, CSS, HTML, JavaScript; exposure to Assembly, Verilog

**Frameworks/Technologies**: Node.js, React Native, Astro, Tailwind-CSS, Figma, Agile

**Tools/IDEs/Operating Systems**: Visual Studio Code, BlueJ, Replit, Git, JUnit, VirtualBox, Linux, Ubuntu

**WORK EXPERIENCE**

**Fiber Mountain – Software Engineering Apprentice** *June 2024 – present*

* Hands-on experience with Node.js and software APIs
* Gaining practical knowledge in network configurations, VirtualBox, and Ubuntu

[**TEDxUCSD**](https://github.com/TEDxUCSD/tedxucsd-web) **– Web Developer & Media Coordinator**  *October 2024 – present*

* Enhancing the [TEDxUCSD website](https://tedxucsd.com/)%20) to improve user experience and performance using Astro and Tailwind CSS
* Managing, editing, and curating media content for their website and other social media platforms

**PROJECTS**

[**Personal Website**](https://trishatong-personal-website.netlify.app/)) **| JavaScript, CSS, HTML** *Winter 2024 – Spring 2025*

* Designed and developed a responsive personal website using HTML, CSS, and JavaScript to showcase profile
* Built theme toggle, interactivity, and responsive design using CSS media queries and JavaScript

[**Blackjack Project**](https://github.com/trishatong/blackjack) **| Python** *Spring 2024*

* Implemented Monte Carlo techniques, Temporal Difference policy evaluation, and Q-Learning for Blackjack
* Visualized state values and convergence behavior with interactive game state overlays; ensured correctness with both deterministic and large-scale convergence tests

[**Gym App Project**](https://github.com/trishatong/FitnessTrackerApp/tree/main) **| React Native, JavaScript** *Summer – Fall 2023*

* Developed a mobile app with interactive UI components using React Native track workouts, goals, and diet
* Followed Agile development practices with bi-weekly sprints and regular Git-based collaboration

[**Tarot Card Fortune Teller Project**](https://cse110-sp23-group27.github.io/Fortune-Telling-Group-27/) **| JavaScript, CSS, HTML** *Spring 2023*

* Developer and rotating Scrum Master on team building an interactive tarot card fortune teller web app; practiced Agile with 2-week sprints, daily stand-ups, and sprint retrospectives to manage scope
* Managed code with Git/GitHub; resolved merge conflicts via manual integration and team collaboration

**Huffman Coding Project | C++** *Winter 2022*

* Developed Huffman Compression based software to perform file compression/decompression
* Ensured bit-level accuracy when writing and reading compressed binary data; tested across various file types

**Cypher Project | C, Assembly** *Fall 2022*

* Built a file cryptographic software using byte manipulations and XOR encoding via code books
* Implemented bit reversal logic using low-level C and Assembly via bit shifting and masking

**LEADERSHIP**

**Kairos Church – Leader** *September 2022 – present*

* Leading groups of college students in prepared lessons, activities, and events; teacher for children ages 2-11
* Volunteer at a Tijuana orphanage, homeless outreach, and for Strong Families

**Women In Computing – Engineering Mentor** *September 2022 – December 2023*

* Served as an EDGE mentor and active member of the Freshman Committee