

Tom Mach

Software Engineer

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Skills

C++, Java, JavaScript, CSS, HTML, Node.js, React.js, Express.js, C, C#, Python, SQL, NoSQL, MySQL, Cassandra, Redis, MongoDB, Neo4j, Docker, Unity, Visual Studio Code, Google Suite

Education

San José State University - Bachelor of Science in Computer Science (Aug 2019 - May 2022)

Relevant Courses

Data Structures and Algorithms, Object Oriented Design, Operating Systems, Database Management Systems, NoSQL, Computer Game Design

Projects

Facebawk - Web App (Dec 2022)

[Demo](#) | [Github](#)

JavaScript, HTML, CSS, Node.js, React.js, Express.js, MongoDB, Heroku, Netlify

- Developed a visually appealing website utilizing React.js, HTML, and CSS.
- Integrated MongoDB to efficiently store account information and achieve scalable performance.
- Users are allowed to search and add friends to build their own network and customize their own newsfeed.

Tummybot - Discord Messaging App Bot (Jun 2022)

[Github](#)

JavaScript, Node.js, Discord.js, Heroku

- Maintain an average of 50 daily usages by 23 users by operating 24 hours a day on two servers.
- Utilized AWS S3 to securely store JSON files containing user data, including points, stats, and inventory, enabling seamless progress tracking for users.
- Implemented 85 features, such as minigames and transactions, to allow users to earn and spend points.

Wizard - Action Game (Dec 2020)

[Demo](#)

Unity, C#

- Collaborated with a team of 2 artists and 2 engineers to discuss and establish all aspects of the project.
- Refined gameplay by fixing bugs and updating player controls.
- Designed and implemented 4 distinct boss characters, enhancing challenge and player engagement.

Experience

Barista at Sharetea

Mar 2020 - Aug 2020

- Managed incoming customers and 4 online ordering apps to control a steady flow of orders so my coworkers are not overworked.

Food Runner at Kinja Sushi Bar and Restaurant

Jan 2019 - May 2019

- Kept customers happy by clearing tables and refilling their water leading to an increase in tips by 5-20%.

Teaching Intern at East Bay Asian Youth Center

Aug 2014 - Jun 2016

- Facilitated 40% of the class activities throughout the day and guided students through their homework to improve learning.