Tom Mach

Software Engineer

Oakland, CA • **(510) 918-8823** • **LinkedIn** • **Github** • **Portfolio** • **tom.m.mach@gmail.com**

Skills

C++, Java, JavaScript, CSS, HTML, Node.js, React.js, Express.js, C, C#, Python, SQL, NoSQL, MySQL, Cassandra, Redis, MongoDB, Neo4j, AWS, 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 - MERN Web App (Dec 2022)   **Demo** | **Github**

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

- Developed React components that are both efficient and easy to maintain, promoting their reusability.
- Implemented an Express-based RESTful API to ensure streamlined database access across the website.
- Integrated MongoDB to efficiently store account information and achieve scalable performance.

Tummybot - Messaging App Bot (Jun 2022)   **Github**

JavaScript, Node.js, Discord.js, Heroku, AWS S3

- Successfully executed and delivered 85 features that sustained an average of 50 daily user interactions from a user base of 23.
- Established a document-style database simulation using JSON objects and key references, resulting in simple and efficient data access.
- Employed AWS S3 for secure storage of user data and utilized Heroku to ensure 24-hour uptime.

Wizard - Action Game (Dec 2020)   **Demo**

Unity, C#

- Collaborated with team members to plan and establish all project aspects, ensuring proper planning and execution of each project phase.
- Refined gameplay by fixing bugs and updating player controls to create an enjoyable user experience.
- Designed and implemented 4 distinct boss characters, enhancing challenge and player engagement.

Experience

Barista at Sharetea (12 hrs/week)   **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 (10 hrs/week)   **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 (Internship)   **Aug 2014 - Jun 2016**

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