

# Gabriel Murry

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Portfolio: [gabrielmurry-portfolio.vercel.app](#) • [linkedin.com/in/gabrielmurry](#) • [github.com/GabrielMurry](#)

## EDUCATION

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### Santa Clara University – Leavey School of Business - Santa Clara, CA

- B.S.C. in Economics, *cum laude* Graduation Date: Dec. 2022
- Cumulative GPA: 3.7

## WORK EXPERIENCE

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### Santa Clara University – Santa Clara, CA

Sept. 2022 – Dec. 2022

#### Teacher Assistant

Lectured, tutored, and hosted study sessions for students inside and outside scheduled office hours.

- Mentored 40+ students within two undergraduate advanced macroeconomics courses.
- Tutored groups and individuals in my scheduled office hours 4 times a week.
- Coordinated and hosted two exam review sessions implementing in-depth lectures and breaking down complex concepts.
- Created two mock exams approved by the professor to streamline exam prep, alleviate student stress, and positively impact student performance in the class for future terms.

#### Service Desk Assistant

Sept. 2021 – June 2022

#### University Villas at Santa Clara University – Santa Clara, CA

Enhanced residency connection and fostered a positive culture through personal interactions, community engagement projects, and quality service.

- Organized and coordinated 6 community driven events throughout the academic year to boost resident connection and inclusiveness.
- Assisted students in technical problems and immediate emergencies, providing guidance on procedures and various contacts depending on the situation.
- Communicated a weekly report to my supervisor detailing concerns and improvements.

## Software Engineering Applications

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### Full Stack Developer | Wordle Clone

React | Node | Express | MongoDB | CSS

- Developed a Wordle clone with the MERN stack styled for mobile and desktop.
- Designed an accessible interface through visual expectations and chunk sequencing.
- Utilized reusable components and React hooks such as useState, useEffect, and useCallback.
- Authentication with JWT, tokens, and cookies, with a REST API issuing tokens in httpOnly cookie.
- Engineered CRUD operations on user data and displayed statistics on a global leaderboard.

### Full Stack Developer | Project Manager

React | Node | Express | MongoDB | GraphQL | Bootstrap

- Developed on the MERN stack with GraphQL and Apollo Client to house project ideas.
- Used React's dynamic page routing along with Bootstrap CSS to create a responsive UI.
- Managed CRUD operations with mutations and queries from MongoDB and GraphQL schemas.
- Used Apollo's in-memory cache to avoid redundant network requests by caching queries.

### Software Engineer | Chess AI

JavaScript | HTML | CSS

- Implemented the minimax algorithm as the foundation for the Chess AI.
- Utilized alpha-beta pruning to optimize the minimax algorithm.
- Created heuristic boards to prioritize move ordering which optimizes alpha-beta pruning.
- Developed a transposition table to improve efficiency by hashing Zobrist keys using bitwise operations for every new board configuration.

## Technical Skills

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**Front End** | JavaScript, React.js Next.js, HTML, CSS, Tailwind CSS, Bootstrap CSS

**Back End** | C++, Node.js, Express.js, Python, MongoDB, GraphQL, Apollo

**Testing / Deployment / Dev Tools** | Mocha, Git, AWS Amplify, Vercel, Netlify