Tristan Mclennan

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Education

- **San Francisco State University**: Bachelor of Computer Science   **GPA**: 3.70

Projects:

- **Covid-Sweeper**:
  - Designed and deployed a [Minesweeper Clone](#) with a serverless backend on AWS.
  - GUI built using React hooks and includes landing, settings, and scoreboard pages.
  - Backend tools include AWS Lambda, API gateway, S3, Route 53, and Amplify.
  - DynamoDB is used for storage, with guest access tokens provided by Cognito.
  - Testing was done with Jest and React-Testing-Library.

- **Chess Application**:
  - Designed and deployed a [Chess Application](#) using the MERN stack.
  - GUI built using React and Redux includes interactive Lobby and Game Play.
  - Built authentication using JWT with token saved to local storage for validation.
  - MongoDB Atlas and Mongoose are used for storage,
  - Socket.io used for game logic, and real time display of online players in sidebar.

- **SafeSF Project**:
  - Worked front-end on a team of 7 to design, implement and deploy a [Hazard Reporting Platform](#).
  - Used Bootstrap 4, CSS, and jQuery to implement the Form, Home, and Search pages.
  - Collaborated closely with back-end team to implement location services, authentication and validation.
  - Helped with testing and preparing deliverables to fit the specifications of the 8-week project.
  - I was active in all steps of the Agile design process and participated in daily SCRUM meetings.

- **Java Compiler**:
  - Built a simple [Java Compiler](#) in Java as a project in an OO design class.
  - Designed and implemented the Interpreter, the Virtual Machine, Debugger, and built a custom Bytecode library to specification.
  - This project heavily leveraged Object-Oriented practices and common Design Patterns such as the Decorator, Singleton, Visitor, and Factory patterns.

Work Experience:

- Zuni Café (2012-2019): Bartended at a high-volume restaurant. I developed strong communication, multitasking, and interpersonal skills from this role. I used both creative and critical thinking to improvise cocktail design.