**Tristan Mclennan**

[Tmclennan@mail.sfsu.edu](mailto:Tmclennan@mail.sfsu.edu) | (415) 235-2787

Github: <https://github.com/T-mclennan>

Linkedin: <https://linkedin.com/in/T-mclennan>

**Education**

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

**Projects:**

* **Covid-Sweeper**:
  + Designed and deployed a [Minesweeper Clone](https://covid-sweeper.com/) 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](https://github.com/T-mclennan/Chess-960) 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](http://safesf.ddns.net:3000/search-results?user_entry=).
  + 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](https://github.com/T-mclennan/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.