

Syed Raza Abbas

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Projects

BookCase

MongoDB, Express.js, React, Node.js, TypeScript

- Developed a **full stack application** that makes use of the Google Books API to make recommendations to users based on their Library of books.
- Implemented responsive frontend using **React** and **Redux** for state management.
- Used **JWT** to implement modern authentication.
- Repository: <https://github.com/SAbbas2018/bookcase-typescript>.
- Live App: <https://bookcase-v2-typescript.herokuapp.com/>.

TicTacToe

MongoDB, Express.js, React, Node.js

- A browser based TicTacToe game that allows for users to play against each other in **real time** by making use of **Socket.IO**.
- The game features three different game modes, including playing against an AI (with 3 levels of difficulty), with friends offline, and with friends online in real time.
- Repository: <https://github.com/SAbbas2018/tictactoe>.
- Live App: <https://tictactoe-sa.herokuapp.com/>.

Carden

Express.js, React, Redux, Agile Development

- A web app that lets users create interactive cards to send to their friends and family written in **React**.
- Implemented **frontend UI** based on **Figma Designs**.
- Created frontend routing using **React Router**.
- Took part in daily stand-ups and scrum meetings. Participated in code reviews to efficiently provide feedback for feature work.

Vive: Multiplayer Tank game

React, Node, Express, WebSockets, PostgreSQL, MongoDB

- A multiplayer tank shooting game where players can spawn in a game with other players and different levels of bots.
- Made use of **JWT** for user authentication, and game room entry.
- Implemented a time reversal feature by making use of **MongoDB** to store game state every 5 seconds.
- The app uses **web sockets** to facilitate **real time** game play between players.
- Implemented a global leaderboard of the top 10 score using **PostgreSQL**.

Skills

Web: TypeScript, React, Express.js, Node.js, HTML/CSS, Javascript, PHP

Programming Languages: Python, Java

Databases: MongoDB, PostgreSQL, Neo4j

Technologies: Git, Linux Tools, Docker, Jira

Education

University of Toronto

HONOURS BACHELOR'S OF SCIENCE (HBSc)

SEP. 2017 - NOV. 2021

- Majoring in Mathematics and Computer Science.
- CGPA 3.27 out of 4.0