Xuteng Luo

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EDUCATION

Shanghai Jiao Tong University (SJTU)   Shanghai, China
University of Michigan - Shanghai Jiao Tong University Joint Institute (JI)   Sep. 2020 – Aug. 2022
Bachelor of Science in Electrical and Computer Engineering

University of Michigan   Michigan, US
Electrical Engineering and Computer Science   Aug. 2022 – Now
Bachelor of Computer Science

PROJECTS

Card Game AI (University Student Innovative Practice Program in SJTU)   Oct. 2021 - Apr. 2022

- An AI algorithm designed to perform the best playing strategy according to prescribed rules. With the concept of Reinforcement Learning, training three card AIs representing three different difficulties.
- Use the concept of Proximal Policy Optimization (PPO) and implement the algorithm with the gym library.
- Specify and minimize the action states and observations states according to the rules; Training the model on the online server; Optimizing the reward function.

To-do List   Mar. 2021 - Apr. 2022

- An online to-do list website which can be used to record things need to be done each day. Functions include add and deleting to-do items, showing the current date and temperature, divide items into different categories, etc.
- Use Node.js and the EJS module to implement front-end and back-end interactions.
- Use MongoDB to save the data users create on the website. Deploy the app with a database to the online server with Heroku.

Blog Website   May. 2022 - Jul. 2022

- A blog website which enables users to sign in, sign up, post blogs, view blogs, etc.
- Use Passport.js to add Cookies and Sessions so that users can keep the sign-in state.
- Use OAuth 2.0 to enable users to sign up with google account. Use bcrypt module to salt and hash user's password who wants to directly sign-up.
- Use Mongo online database to hold all the account information.

Notebook   Feb. 2022 - Mar. 2022

- A simple online site enable users to take notes or delete their notes.
- Use REACT hooks to manage states and the Component tree to make front-end and back-end interactions.
- Use online mongoDB to hold the users' database.

LANGUAGE & TECHNICAL SKILLS

Programming languages Frameworks: C/C++, Python, Html, Css, JavaScript, SQL, Latex, MATLAB

Frameworks Tools: Bootstrap, JQuery, NodeJS, React, MongoDB, Pytorch