

Jesse Nicholas

Software
Engineer

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Projects

Tetris Buddies // A collaborative multiplayer Tetris variant

TECHNOLOGIES: NodeJS, Express, Socket.io, Javascript, CSS/HTML, Handlebars

- * Implemented multiple game modes, as well as player settings (customizable usernames, sound toggle, etc.) to enhance user experience.
- * Created dynamic routing framework to let users to create unique game sessions.
- * Flexible algorithm adjusts automatically to a team member quitting mid-game.

Shock and Draw // A head-to-head Pictionary-style drawing and guessing game

TECHNOLOGIES: NodeJS, Express, Socket.io, Javascript, JQuery, CSS/HTML

- * Designed and implemented six unique “attacks” that target various aspects of gameplay
- * Implemented automatic transition between rounds, including round previews, score updates, and a final score report that includes attack statistics
- * Configured sockets to manage tricky event handling.

Q Maze Solver // A maze-solving AI using reinforcement learning

TECHNOLOGIES: Javascript, JQuery, Plotly, HTML/CSS, Python/Tensorflow

- * Designed and implemented maze-solving temporal difference learning model.
- * Created interface allowing users to design their own mazes.
- * Maze-solving simulation includes customizable speed and display settings, and a graph tracking the AI’s progress in real time.

Work Experience

Sesame Workshop // Writer

NOV 2019 - JUNE 2021 – NEW YORK, NY

Wrote full episodes of *Mecha Builders*, which premieres Fall 2021, as well as for the recurring *Sesame Street* segment “Abby’s Amazing Adventures.”

Baboon Animation // Writer

FEB 2018 - JUNE 2021 – BROOKLYN, NY

Wrote full episodes for animated children’s show *Taffy* (Boomerang), did comedy punch ups for dozens of animated shows and movies, managed interns and edited scripts.

Skills

Backend Development: NodeJS, Express, Python, SocketIO

Frontend Development: Javascript, React, JQuery, Bootstrap, CSS, HTML

Data Science: Numpy, pandas, TensorFlow, Keras

Education

Boston College // Bachelor of Arts in Mathematics, Minor in Economics

MAY, 2018 – CHESTNUT HILL, MASSACHUSETTS