Austin Turpen

Software Engineer

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Skills

Languages | TypScript, JavaScript, Python, HTML, CSS
Libraries and Frameworks | React, Node.js, Express.js, Django, Passport.js
Database MongoDB, Mongoose, PostgreSQL, TypeOrm
Other | RESTful Routing, OAuth, WebRTC, Socket.io, Stripe API, AWS, GCP

Projects

Grammar Vision // https://grammar-vision.wl.r.appspot.com
MERN, JWT auth, deployed with Google Cloud Platform (GCP)
- Full stack MERN app that checks grammar and spelling from images of handwriting.
- Take a photo of your document from the in-app camera and see how you can improve your writing!
- This app utilizes optical character recognition (ORC) to convert images of handwriting into plain text, which is then checked for spelling and grammar. The grammar data is integrated with the image data in order to annotate the original image.

Squasher // https://squasher-seir.herokuapp.com
Express + EJS, MongoDB, WebRTC, Socket.io, OAuth
- Login with Google, open a live room and share the link with a friend to screen share and chat about code in real time. (Screen share not supported on mobile devices)
- Users can post questions to the thread and/or reply with answers to help resolve bugs.

CheckMeOut Marketplace (group project) // https://checkmeout-marketplace.herokuapp.com
Django, Postgresql, Stripe Payments
- A social media marketplace where users can post their art/creative services.
- Contributions: GitHub manager, implemented Stripe Checkout API, search functionality

Algorithmic Maze Solver // https://turpen2319.github.io/emoji-maze
JavaScript, HTML, CSS
- In this emoji-themed browser game, choose between several characters, including a few AI characters, to solve the maze before time runs out.
- Implemented from scratch an unweighted, undirected graph to represent the maze board. The AI character solves the maze using a depth-first search algorithm.

Relevant Professional Experience

English as a Second Language Instructor
Seoul, South Korea | Suncheon, South Korea   *07/2019 - 11/2021*
- Led in-person and remote (via Zoom) classes focused on developing students' speaking, reading, and academic/creative writing skills.
- Planned lessons based on authentic texts and developed scaffolded materials to make the content accessible to non-native speakers.
- Wrote report cards for 30+ students on a quarterly basis, breaking down personalized goals into smaller, more manageable steps to achieve said goals.

Education

General Assembly - *500+ hour Software Engineering Immersive*	*2022*
ZTM Academy - *Data Structures and Algorithms, Complete Web Developer (React, Node, SQL)*	*2021-'22*
Udemy - *The Modern Python 3 Bootcamp*	*2020*
University of Iowa - *BA English Literature and Creative Writing (Honors, 3.9 GPA)*	*2019*