

Austin Turpen

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[LinkedIn](#) • [GitHub](#) • [Portfolio Website](#)

Skills and Technical Tools

Languages | JavaScript/TypeScript, Python, SQL, HTML, CSS

Technologies | React, Express, Django, OAuth, GCP, AWS, GraphQL, Docker, PostgreSQL, MongoDB, WebRTC, Kubernetes

Experience

Software Engineer Intern // React, TypeScript, Postgres, GraphQL, Hasura, Apollo, Koa, Docker 03/2022 - present

The Music Test (formerly "The Rap Test") | remote

- Startup that builds quiz games for major musical artists, such as Eminem and The 1975, in order to drive fan engagement and enable management teams to derive valuable market insights about their core fan bases.
- Migrated leaderboard functionality from a Redis database to a Dockerized Postgres database.
- Transitioned CRUD logic from a RESTful Koa.js backend to a GraphQL server powered by Hasura GraphQL Engine.
- Deployed main backend component using Google Kubernetes Engine.
- Attended weekly stand-ups with the founder to discuss progress, blockages, and system design decisions.

Software Engineer Fellow // JavaScript, React, Express, Django, PostgreSQL, MongoDB 02/2022 - 05/2022

General Assembly | remote

- 12 week/500+ hour intensive Full Stack Development program.
- Developed 3 full-stack web applications independently and collaboratively while practicing Agile methodology.
- Built RESTful APIs to store data for web-apps using Django and SQL (PostgreSQL) or Express with MongoDB. Also integrated several third-party APIs.

Selected Projects

Grammar Vision // MERN stack, JWT auth, deployed with Google Cloud Platform (GCP)

<https://grammar-vision.wl.r.appspot.com>

- 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 (OCR) 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. (Guest login credentials → email: a@a, password: 123)

Squasher // Express + EJS, MongoDB, WebRTC, Socket.io, OAuth

<https://squasher-seir.herokuapp.com>

- 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.

Algorithmic Maze Solver // JavaScript, HTML, CSS

<https://turpen2319.github.io/emoji-maze>

- In this emoji-themed browser game, choose between several characters, including a few AI characters, to solve the maze before time runs out.
- Implemented an unweighted, undirected graph to represent the maze board. The AI character solves the maze using a depth-first search algorithm.

Other Experience

English as a Second Language Instructor

07/2019 - 11/2021

Seoul, South Korea | Suncheon, South Korea

- Led in-person and remote classes focused on developing students' speaking, reading, and 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, providing actionable feedback and personalized improvement plans.

Education

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