

Jonathan Getahun

kgetahun2@gmail.com • (281) 857-2472 • [LinkedIn](#) • [GitHub](#) • [Website](#)

Skills

JavaScript, Python3, React, Redux, MongoDB, Express.js, Node.js, PostgreSQL, AWS, Git, HTML5, CSS3, Heroku

Projects

RusticBnb | (React, Redux, Express, MongoDB)

[live site](#) | [github](#)

Single-page application created for travelers seeking natural scenery, inspired by Airbnb.

- Improved efficiency of database by using AWS S3 buckets for storage of images, ensured content security through AWS IAM and pre-signed URLs.
- Implemented Google Maps API for dynamic rendering of listings using geolocation.

WeebTube | (React, Redux, Express, MongoDB)

[live site](#) | [github](#)

A YouTube based clone that includes many functionalities

- Incorporated React-Redux container and used front-end state management procedures with multiple components to ensure scalability and optimization.
- Managed database relationships between models using Mongoose ODM, and integrated CRUD operations with those models.

Connect-4 | (Python, pygame)

[github](#)

Small pygame application using a minimax algorithm.

- Implemented the minimax algorithm so AI can recursively find the most optimal move through minimax branches. Minimax algorithm was optimized with alpha beta pruning.
- Used pygame to render the connect-4 images on screen, and handle game functionality.

Professional Experience

Nine East

Baltimore, Maryland

Community Assistant

June 2019 – August 2020

- Contributed to the health and safety of ~2,000 underclassmen for the school year, responded to 16 medical emergencies and created 30 program initiatives.

UMD School of Medicine Neurology Department

Baltimore, Maryland

Clinical Research Coordinator

January 2020 – April 2020

- Used Excel to program a test that calculated the scores of 20 research subjects' performances in order to find correlations in mental states.

Applied Physics Lab

Laurel, Maryland

Artificial Intelligence Intern

March 2019 – May 2019

- Assisted with developing a series of AI safety challenges that explored constraints that exist in the field using python.

Education

Johns Hopkins University

Baltimore, Maryland

Bachelors of Science in Neuroscience

August 2014-May 2019

Interests

Running, Reading, Drawing, Video/Board Games