

Grant Peterson

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Education

Rensselaer Polytechnic Institute

Troy, NY

B.S. DUAL MAJOR IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY AND WEB SCIENCE

Aug. 2018 - May. 2022

- Concentrations in AI and Data / Web Technologies.
- Cum. GPA: 3.56/4.0

Skills

Languages JavaScript, C++, C, , Python, Java, HTML/CSS

Libraries Angular, React, Express.js, TensorFlow

Tools Node.js, REST API, MongoDB, Git

Work Experience

Gale

Farmington Hills, MI

WEB ACCESSIBILITY INTERN

Mar. 2018 - May. 2018

- Developed solutions to hundreds of WCAG 2.0 violations in the Gale databases utilizing aXe and NVDA.
- Created written reports on these accessibility failures and effectively communicated solutions to non-technical team members.

UserTesting

Remote

USER TESTER

Nov. 2018 - May. 2019

- Analyzed Client's UI from the perspective of a potential user, receiving an average rating of 5/5 stars.
- Delivered oral walk-through of products, followed by critiques and suggestions on how to improve the UX.

Projects

AI Learns to Play Snake

TENSORFLOW, JAVASCRIPT, P5.JS

Jun. 2020

- Built application which trains an AI to play Snake using neural networks and a genetic algorithm.
- Programmed variable speed training environment with data visualizations to view the AI's progress in real time.

CPU Scheduling Simulation

C++

Jul. 2020

- Implemented a simulation of an operating system, focused on the scheduling of processes in and out of the CPU.
- Output comparisons of various statistics for First Come First Serve, Shortest Job First, Shortest Remaining Time, and Round Robin CPU scheduling algorithms.

Flux - Voice Controlled Smart DJ for Spotify

ANGULAR, WIT.AI, NODE.JS, EXPRESS.JS

May. 2020

- Leveraged Wit.ai and the Spotify Web API to parse spoken or typed natural language into song recommendations and playback commands.
- Developed custom API to enable direct interfacing with active Spotify devices, supporting queue and playback manipulation.

Readsy - Reading Application for ICS Middle School

ANGULAR, MONGODB, NODE.JS, EXPRESS.JS

Mar. 2020

- Built application which allows ICS students to share and review books they've read in class or otherwise.
- Implemented admin portal for teachers to vet student uploaded reviews and books before they are visible to the student body.
- Utilized Google Books API to generate book descriptions and thumbnails, and developed custom tagging system for searching by genre.

Pathfinding Visualizer

REACT.JS

Feb. 2020

- Built application to visualize Dijkstra's and A* pathfinding algorithms.
- Implemented recursive division maze generation and randomized Prim's maze generation.
- Programmed custom wall and weighted cell system which influence the algorithm's optimum path.