Anthony Ramanovich

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https://github.com/AnthonyR2706

Education

CUNY Brooklyn College   Brooklyn, New York
B.S. Computer Science   Graduated June 2023

Employment

Digitize   Lake Hopatcong, NJ
Embedded Software Engineer   09/2024 – Present
- Designed and implemented firmware for 8051 and Arduino microcontrollers, optimizing performance and reliability for embedded systems
- Developed and tested low-level drivers for peripherals using UART, SPI, and I2C communication protocols
- Configured and maintained TCP/UDP protocols to enable seamless data transmission and system connectivity
- Designed and assembled custom PCBs, integrating them with embedded software for end-to-end system functionality
- Diagnosed and resolved hardware issues using multimeters and thermocouples, ensuring device stability and operational efficiency

Projects

Payment Tracker: React, Node.js, MongoDB, Express
- Developed a full-stack web application that allows users to manage their payments
- Server hosted through render
- The Express library allows the front-end website to interact with the back end, making all operations possible
- Data storage on MongoDB makes user information simple to receive and edit
- Allows the user to perform CRUD operations that are synced through a server

Drum Machine: React
- Designed an interactive soundboard enabling allowing to play sounds
- Implemented useEffect to let the soundboard update and play sounds based on key or mouse clicks

Page Ranker: Python
- Imitates the way search engines rank and display links when searching
- Gives each page a rank based on two algorithms
- A random surfer model ranks them based on visits over a specific amount of iterations
- Iterative model ranks them recursively until the ranks no longer change above a threshold

Minesweeper AI: Python
- An AI that will play and solve a minesweeper board
- Using a library of propositional logic, it can know which tiles are safe or mines
- Every new tile revealed creates a new set of logic for an updated mine list

Skills

Languages: Java, C++, C, Assembly, Python, JavaScript
Operating Systems: Windows, Linux
Database: MongoDB, SQL
Version Control: GitHub
Web Development: HTML, CSS, SCSS, Node.js, React

Linkdin: https://www.linkedin.com/in/anthonyramanovich/
Portfolio: https://anthonyr2706.github.io/PersonalDemo/