

Jonathan Eisenbrandt

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Summary

Computer Engineering Graduate with experience in Firmware development, Software development, and Machine learning seeking Software development opportunities to impact the software engineering industry.

Education

Bachelor of Science in Computer Engineering

May 2023

University of Houston, Cullen College of Engineering - Houston, Texas

Graduated with University Honors

GPA 3.2

Relevant Coursework

Data Structures and Algorithms | Fundamentals of Software Engineering | Advanced Microprocessor Systems | Discrete Mathematics | Intro to Computer Architecture and Design

Relevant Projects

BEMO Headset | University of Houston

August 2022 - May 2023

- Utilized machine learning to label emotions of users with 70% accuracy
- Redesigned headset based on headset used in neroexo project including 5 EEG sensors
- Created IOS application to display user data deployed on firebase

Portfolio Website | Personal

October 2023 - Present

- Utilized Next.js framework to build Web app
- Built app using single page model with server components
- Utilized media queries to format page on different size screens

Experience

Software Developer

January 2023 - October 2023

Erdos Miller, Houston TX

- Wrote reusable react components to based on mockups to build pages more easily
- Contributed to a comprehensive suite of tests to support CI/CD pipelines covering 80% of codebase to ensure code integrity
- Interacted with clients on a weekly basis to receive feedback on software products
- Wrote back end logic to communicate with proprietary hardware solutions
- Refactored command line application to run as background service which streamlined UX
- Completed 1-2 feature or bugfix tickets per week to keep pace with projections
- Participated in 1-2 code reviews per week to ensure code integrity
- Customized test environments to closely mirror client settings for accurate deployment testing

Engineer Intern

May 2022 - August 2022

Erdos Miller, Houston TX

- Contributed to firmware to facilitate testing
- Composed user guide for software package allowing technicians to understand the software
- Created tickets for the project that went past the project's scope to allow for future improvement
- Increased PCB testing speed by >400%

Skills

Typescript, C++, Python, HTML, CSS, QT, Next.js, React, Django, Git

Activities

IEEE, Member

September 2019 - present

AIAA, Member; UAV software team

September 2020 - September 2023

ReactHTX, Member

November 2023 - present