Joseph Petrillo

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Education

University of Massachusetts Amherst   Sept. 2019 – May 2023
Bachelor of Science in Computer Science **GPA: 3.876**   *Amherst, MA*
Relevant Coursework: Data Structures, Algorithms, Web Programming, Networking, Databases
Fall 2022 Courses: Scalable Web Systems, Software Entrepreneurship, Search Engines
Achievements: Deans List 4 Semesters, John and Abigail Adams Scholarship

Technical Skills

Languages: JavaScript, TypeScript, Java, C, HTML/CSS
Libraries/Frameworks: React, TailwindCSS
Developer Tools: Git, GitHub, Parcel, Prettier, ESLint, Postman, VS-Code, Netlify, Chrome Dev Tools, Eleventy

Projects

Lone Music | *Javascript, HTML/CSS, Express, MongoDB*
- Created a music platform that allows users to post instrumentals and others to reply with their own vocals
- Developed and refactored REST API written in Express to follow best practices, reducing the overuse of query parameters, using nouns instead of verbs in endpoint paths, and nesting resources appropriately
- Led MongoDB setup and implementation, replacing non-persistent data storage used for early prototyping
- Built a responsive UI using modern CSS and Bootstrap based on a mockup created in Figma

React To-Do List | *Javascript, React, TailwindCSS*
- Created modern frontend for to-do list using React and TailwindCSS
- Configured a toolchain from scratch using Parcel, Prettier, and ESLint to bundle files, consistently format code and automatically detect problematic code patterns
- Learned to use functional components and fundamental React hooks, including useState and useEffect

ASCII Helper | *Javascript, HTML/CSS*
- Developed website using vanilla Javascript that provides a character to ASCII value conversion interface that is easier and faster to use than a traditional table
- Implemented fundamental DOM manipulation techniques and updated the page automatically when the input given by the user changes
- Designed a mockup in Figma and used responsive CSS practices, including flexbox and rem units, to create a UI that is appealing and seamless for the end user

jpetrillo.com | *Javascript, HTML/CSS, Eleventy, Nunjucks*
- Built a personal website using a static site generator alongside a templating engine and extensive CSS
- Converted old personal site from plain HTML and integrated Eleventy to implement markdown translation and allow for dynamic pages to be generated using Nunjucks templating
- Overhauled pre-existing CSS stylesheet and rewrote it using modern techniques, including flexbox, rem units, custom properties, and media queries to ensure responsiveness across all devices

Experience

Loom   June 2022
Software Engineer Intern   *Remote*
- Entire internship program was abruptly cancelled less than two weeks before the start date
- Expected tech stack included Javascript, Typescript, React, CSS, NodeJS and Express
- Selected from large pool of candidates to help build next iteration of creation and collaboration tools

Pinehills Golf Club   April 2018 – August 2021
Golf Services Attendant   *Plymouth, MA*
- Developed an atmosphere of professional friendliness and hospitality
- Assisted 250-300 golfers daily while ensuring all needs were met in a prompt manner
- Helped organize highly acclaimed tournaments by storing and loading golf bags, cleaning equipment, and golf carts, and managing tee times to promote efficient play