Joseph Petrillo

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Education

University of Massachusetts Amherst   Sept. 2019 – May 2023
Bachelor of Science in Computer Science **GPA: 3.868**   *Amherst, MA*
Relevant Coursework: Data Structures, Algorithms, Web Programming, Networking, Databases
Fall 2022 Courses: Scalable Web Systems, Information Systems, Search Engines
Achievements: Deans List 5 Semesters, John and Abigail Adams Scholarship

Technical Skills

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

Projects

Lone Link | *TypeScript, NextJS, Next Auth, TailwindCSS, Prisma, PostgreSQL, Zod*
- Developed a full stack application that gives each user a personal page containing all their links to circumvent social media platforms only allowing one in each user bio
- Built authentication using email "magic links" that are used to sign in users without passwords
- Utilized several data fetching patterns where appropriate such as server side rendering and client side fetching to improve performance, handle redirects, and ensure immediately up to date pages
- Interacted with a PostgreSQL database and modeled data using Prisma to create and delete links, handle user sessions, and manage email verification tokens

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

AppTrack | *TypeScript, React, TailwindCSS, Golang, PostgreSQL, AWS Lambda*
- Built a full stack mailing list app on a small team to ensure students never miss out on the most prevalent internship and new grad job postings
- Designed and implemented a modern frontend using React, React Router, and TailwindCSS
- Accumulated over 300 users on launch day, streamlining the job search process for hundreds of students

jpetrillo.com | *JavaScript, Eleventy, Nunjucks, TailwindCSS, GSAP*
- Built and designed a personal website to post blogs, projects, and tutorials to increase online presence
- 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
- Used TailwindCSS and GSAP to integrate smooth animations, flexbox, grid, rem units, and breakpoints to ensure responsiveness and consistent sizing across all devices

Experience

Loom (Cancelled)   June 2022
Software Engineer Intern   *Remote*
- Expected tech stack included Typescript, React, CSS, NodeJS, Express and PostgreSQL
- Selected from a large pool of candidates to help build the 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 promptly
- Helped organize highly acclaimed tournaments by storing and loading golf bags, cleaning equipment and golf carts, and managing tee times to promote efficient play