

# 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

### 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 the site's frontend using TypeScript alongside React and TailwindCSS
- Accumulated over 200 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

### 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

## 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 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