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James Leone

Education

University of Massachusetts, Amherst   **June 2020 - Sept 2024**

- **Major**: Computer Science, B.Sc. (GPA: 3.8, in-major GPA: 3.87), **Minor**: Philosophy
- **Software Engineering Coursework**: Theory of Software Engineering, Scalable Web Systems, Operating Systems, Practice and Applications of Data Management, Web Programming, Software Engineering, Algorithms, Programming Methodology.
- **Honors**: Dean's List (Fall 2020, Spring 2021), Member of the Honor Society of Phi Kappa Phi (initiated in the Spring of 2022).

Work Experience

Rediker Software | Hampden, MA   **Sep 2019 - July 2020**
Development Intern

- Developed an email application using Sendgrid's Email API using HTML, CSS, and Express.js, which enabled EdTech to send thousands of newsletters and digital advertisements, bypassing original limitation of 500 emails sent to customers.
- Developed a Node.js script used by product owners to automate online payment processing.
- Collaborated on two Agile development teams using Scrum and Jira.
- Leveraged knowledge in full stack web development technologies, such as HTML, CSS, JavaScript, jQuery, React.js, Express.js, Node.js, SQL, Docker Compose, Jenkins, Git, Atlassian Bitbucket, and unit testing

Home Depot | Chicopee, MA   **Nov 2024 - Mar 2025**
Sales Associate   **May 2022 - Aug 2022**

- Sold merchandise as an associate in both the Flooring and Decor departments
- Scheduled flooring measurements and installations with Service Connect
- Ordered merchandise and created custom orders for customers
- Collaborated with other stores and employees to locate merchandise for customers throughout New England
- Helped troubleshoot and resolve customer concerns with strong communication skills
- Retrieved, packaged, and moved merchandise around store.

Projects

Portfolio Site | Next.js, React TypeScript, Vercel, Tailwind CSS, Aceternity UI

- *Available at* https://www.jamesleone.co
- Uses a server action to validate real and fake email addresses, as well as detect bots and enable rate limiting
- Leverages Next.js's static site generation capabilities for fast rendering and for high SEO.
- Deployed with Vercel and uses the Vercel Firewall to prevent attacks such as DDoS.

Orbitus | Svelte, SvelteKit, Bootstrap, Express.js, Prisma Postgres, Docker Compose, AWS S3, AWS CloudFront

- Designed and implemented a microservice-based application that sorts and generates playlists based on user-uploaded songs by genre and song characteristics.
- Developed intuitive user interface that utilizes Svelte, SvelteKit, Bootstrap5, and Vite.
- Integrated an event-bus microservice that coordinates events, requests, and responses between other microservices.
- Created several microservices for creating modes and storing images and audio on Amazon S3
- Leveraged Amazon CloudFront for signing data URLs, caching binary data, and invalidating the cache.
- Implemented Docker Compose for running the services in Docker containers.

KitchenKeeper | Figma, React.js, MUI, Django, SQLite, Amazon S3

- Developed as part of a team in Theory of Software Engineering (CS 520) an application that allows users to manage food ingredients, create food-related posts, and generate recipes with the Google Gemini API.
- Aided in developing a backend server using Django and PostgreSQL
- Leveraged React.js and Material UI (MUI) for the frontend server, and Django and PostgreSQL (ElephantSQL) for the backend server.

Skills

Programming Languages: TypeScript / JavaScript, Java, C++ / C, Python

Technologies: Next.js, React.js, Svelte, Material UI (MUI), Bootstrap, Tailwind CSS, HTML, CSS, Django, Express.js, Node.js, PostgreSQL, MySQL, Prisma, MongoDB, Amazon (IAM, S3, CloudFront), Docker Compose, Unix / Linux, Git