Emmet Hamell

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EDUCATION

University of Massachusetts Amherst — Amherst, MA
Bachelor of Science in Computer Science, Minor in Economics — *Expected Jan. 2026*
Relevant Coursework: *Data Structures, Algorithms, Programming Methodology, Computer Systems, Artificial Intelligence, Software Engineering, Data Management, Linear Algebra, Discrete Math*

EXPERIENCE

Hulu — June 2024 – Aug. 2024
Product Management Intern, Ad Platforms — *Santa Monica, CA*
- Defined feature scope for client incentives on Hulu's self-serve ad manager
- Developed experimentation briefs for A/A and A/B testing to guide improvements in conversion rates within customizable incentive policies
- Authored detailed product requirement documents (PRDs) for 3 new features and presented product roadmaps to stakeholders

The National Center for Technology and Dispute Resolution — Feb. 2024 – Present
Software Engineer — *Amherst, MA*
- Collaborated with a small team to translate high-level requirements into a Flutter-based app for a non-profit
- Designed data models and implemented CRUD operations to efficiently manage data within a NoSQL database
- Completed heuristic evaluation of UI and implemented improvements, including redesigning the navigation system and building an interactive map using MapBox SDK

ThinkQ AI — Dec. 2023 – Feb. 2024
Software Engineer Intern — *Remote, US*
- Engineered a Python-based web scraping and data parsing tool with Selenium, automating accurate data extraction from thousands of websites in compliance with site policies and best practices
- Utilized regular expressions and various NLP techniques to extract and organize meaningful patterns in text data
- Designed RESTful API endpoints, integrating the web scraper and enabling data storage and updates in a PostgreSQL database

PROJECTS

Promotion Management System | *Java, Spring Boot, PostgreSQL, React* — Sep. 2024 – Present
- Designed and implemented a promotional campaign management system using Java and Spring Boot
- Designed normalized relational database schemas in PostgreSQL to manage entities like campaigns and coupons
- Applied the Repository Pattern with Spring Data JPA to abstract database access and simplify queries for tracking promotional code usage and campaign performance

dentalrank.us | *React, Javascript, HTML/CSS, Node.js, Express, Redux, Bootstrap* — Apr. 2024 – May 2024
- Developed a full-stack website for aspiring dentists to compare dental schools according to chosen attributes
- Implemented sign-up and login flow, using JSON Web Tokens and SendGrid API for authentication
- Parsed spreadsheets into MongoDB and developed an Express.js back-end for data retrieval

Study Space Finder App | *Node.js, JavaScript, MongoDB* — Feb. 2024 – May 2024
- Worked with a small team to build an app for UMass students to find empty classrooms
- Designed an implemented an ETL pipeline to parse and transform university classroom data
- Deployed a Node.js server to handle requests for room availability

LunchLink | *Swift, SwiftUI, Node.js, TypeScript, Firebase* — Oct. 2023 – Jan. 2024
- Built a feature-rich iOS app for users to create and manage events with friends
- Implemented lazy image loading and pagination to ensure smooth performance
- Developed a RESTful API server using Node.js that provides endpoints for dispatching notifications

TECHNICAL SKILLS

Languages: Python, Java, C, C++, Swift, JavaScript, TypeScript, Dart, SQL, HTML/CSS
Frameworks: React, SwiftUI, Flutter, Node.js, Flask, Spring Boot, JUnit, pytest, FastAPI
Developer Tools: Git, VS Code, Visual Studio, XCode, Firebase, MongoDB, PostgreSQL