

# 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 Developer*

*Amherst, MA*

- Designed a database schema and developed CRUD operations to manage user data within a NoSQL database
- Implemented OAuth2 authentication flow for Google and Facebook sign-ups in a Flutter application

### ThinkQ AI

Dec. 2023 – Feb. 2024

*Software Engineer Intern*

*Remote, US*

- Engineered a web scraping and data parsing tool using Python, Selenium, and BeautifulSoup to automate the extraction of data from over 100k websites with a 95% success rate
- Utilized regular expressions and NLTK to extract and structure key insights from unstructured data
- Designed RESTful API endpoints, integrating the web scraper and enabling data storage and updates in a PostgreSQL database

## PROJECTS

### Promotion Management System | *Spring Boot, Java, PostgreSQL, Redis, React, Tailwind*

Sep. 2024 – Present

- Built a headless promotion and coupon code management system to create, distribute, and track promotions
- Architected a microservices-based backend using Java and Spring Boot to handle promotion creation, validation, and redemption

### 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 ADA 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
- Developed an ETL pipeline to automate the extraction, cleaning, and loading of class time data into MongoDB
- Built REST APIs using Node.js to query regarding room availability

### LunchLink | *Swift, SwiftUI, Node.js, TypeScript, Firebase*

Oct. 2023 – Jan. 2024

- Built an iOS app using MVC architecture to users to create and manage events with friends
- Implemented secure user authentication and registration with Firebase
- 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