

Richard Lu

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EDUCATION

University of Massachusetts Amherst

Bachelor of Science in Computer Science

Candidate May 2025

- GPA 3.3 / 4.0
- Relevant coursework: Data Structures, Algorithms, Software Engineering, Web Programming, Natural Language Processing, Search Engines, Discrete Mathematics, Distributed Systems

WORK EXPERIENCE

ProsperOn

Jan. 2025 – Present

Software Engineer Intern

Boston, MA

- Improved page load times by 30% by designing and implementing responsive user interfaces using React and JavaScript, ensuring cross-browser compatibility across 10+ devices.
- Integrated RESTful APIs and UI/UX designs by collaborating with designers and backend developers, maintaining high code quality and comprehensive documentation.
- Reduced front-end issues by participating in code reviews and debugging sessions, enhancing platform stability across browsers.

PROJECTS

Pomodoro Timer Chrome Extension

- Engineered a Chrome extension using JavaScript and Chrome Extension APIs that implements the Pomodoro Technique, helping users maintain focus through timed work intervals.
- Optimized background processes and storage management using Chrome's Storage API and service workers, creating an efficient extension with minimal memory consumption.

Task Management Application

- Developed a full-stack task management app using React, Node.js, and PostgreSQL, achieving secure user authentication with JWT and a 95% user satisfaction rate in usability testing.
- Streamlined task completion time by 40% by leading UI/UX development for core CRUD operations and implementing intuitive design principles.

FitTrack

- Developed a full-stack fitness tracking application using the MERN stack (MongoDB, Express.js, React, Node.js) with RESTful API endpoints.
- Implemented offline capability using service workers and localStorage, achieving 90% offline functionality and reducing data sync times by 50%.
- Designed responsive layouts using Tailwind CSS, ensuring a consistent experience across desktop and mobile devices while maintaining clean code architecture.

SKILLS & INTERESTS

Programming Languages: Python, C, Java, Javascript, Typescript, HTML, CSS

Frameworks/Databases: React, Next.js, Angular, Spring Boot, Express.js, Node.js, Tailwind

Databases: PouchDB, MongoDB, PostgreSQL

Tools & Platforms: Git, Github Actions, Docker

Concepts: Software Development Lifecycle, Agile Methodologies, RESTful Services, Unit Testing

Interests: Weightlifting, Video Games, DJing, Reading, Gardening