WILLIAM SAULNIER

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Education

University of Massachusetts Amherst **2023-2025**

- B.S Computer Science GPA: 3.66
- Introduction to Algorithms, Theory of Software Engineering, Data Management, Social Issues in Computing

Skills

TypeScript, JavaScript, Python, Vue, React, C/C++, Java, SQL, HTML, CSS, Git, RESTful API

Experience

Kratos Inno Tech Co. Ltd. **Jun. 2023 - Aug.2023**

Frontend Developer Intern Bangkok, Thailand

- Developed frontend in JavaScript and React for sales prediction software
- Participated in weekly standup meetings to stay on track with goals
- Conducted multiple in-person client meetings to gather and understand software requirements.

UNH Interoperability Lab **Jun. 2022 – Sept. 2022**

NVMe Technician Intern Durham, NH

- Developed IOL INTERACT software in Python to test NVMe SSD devices.
- Ensured devices under test were compliant with current NVMe specifications.
- Responded to and resolved customer issues from Intel, Samsung, Kioxia, Kingston, and more.
- Received Nebula Award for team coordination and surpassing set goals.

Kubotek USA **Jun. 2021 – Aug. 2021**

Software Engineering Intern Marlborough, MA

- Authored C++ documentation outlining the functionality of KCM (Kubotek3D's CAD modeling software).
- Focused on user experience to create intuitive documentation.
- Collaborated with other interns and senior developers to identify and resolve bugs.

Projects

PaperlessOA – CS520 **Fall 2024**

- Developed an Office Automation (OA) system to assist startups with employee, absence, and task management.
- Designed and implemented the frontend using React and Next.js, and the backend with Python Flask, integrated with an AWS RDS PostgreSQL database.
- Automated workflows for core functionalities, including absence management, task tracking, and hierarchical employee organization.
- Implemented analytics features to provide insights into task completion and employee performance.
- Created and tested APIs for workflows, tasks, and employee management, ensuring seamless communication between frontend and backend.
- Built a testing suite for the backend using Python and the frontend with Cypress to ensure robust functionality.

Study Spaces – CS320 **Spring 2024**

- Developed the frontend of a progressive web app (PWA) called StudySpace, enabling UMass students and faculty to locate study rooms based on availability, images, proximity, and unique features.
- Built the application using Vue.js and TypeScript, leveraging Pinia for state management
- Integrated Tailwind CSS for responsive and visually appealing designs, ensuring a seamless user experience across devices.
- Collaborated with backend components to fetch room characteristics and availability data via REST APIs.
- Implemented features for filtering and displaying study spaces, enhancing usability and decision-making for users.