# Brian Dang

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## EDUCATION

**University of Massachusetts Amherst** Amherst, MA
B.S. in Computer Science, GPA: 3.66/4.0 May 2024
*Relevant Courses: Software Engineering, Scalable Web Services, Theory of Software Engineering, Information Systems, Web Programming, Computer Networks, Operating Systems, Introduction to Algorithms*

## TECHNICAL SKILLS

***Languages:*** Javascript, Typescript, Java, Python, SQL, C, C++
***Frameworks, Tools and Technologies:*** Git, Linux, Bash, Node.js, Express.js, Java Spring, Angular, React, Svelte, PostgreSQL, MongoDB, Docker, Visual Studio Code, IntelliJ, PyCharm, Jupyter Notebooks

## PROFESSIONAL EXPERIENCE

**UMass Chemistry App Independent Study** Amherst, MA
*Software Developer Volunteer* February 2024 – May 2024

- Collaborated within a highly motivated 6-member team to develop a responsive and user-friendly learning web application for UMass's Organic Chemistry class.
- Engaged in an Agile environment with weekly standups and monthly presentations, taking initiative, providing feedback and aligning project progress with team goals to ensure successful project direction.
- Documented, designed, and implemented reusable Svelte components to efficiently render data from the Node.js backend to enhance frontend performance and maintainability.

**Siege Technologies, LCC** Remote
*Software Engineer Intern* June 2023 – August 2023

- Collaborated within a 4-member team to elevate software quality by enhancing features, resolving bugs, participating in code reviews, and strengthening security through Sonarqube warnings.
- Participated in an Agile environment with daily standups and weekly presentations to reinforce Software Development Lifecycle practices.
- Designed Java Spring endpoints for Siege's RESTful Web Services to ensure seamless integration with the Angular front-end.
- Implemented a file retrieval feature that obtains files matching a user-defined query and displays the results to the user, effectively improving file search functionality and user experience from 0% to 100%.
- Created JUnit unit test cases to increase code coverage, ensure functionality, and identify bugs.

## PROJECTS

**DadJokeRanker:** December 2023

- Developed a microservice-based web application for CS 426 (Scalable Web Systems).
- Tested application with load-testing and logging to ensure web application reliability and maintainability.
- Implemented an event-bus service and Node PM2 scripts to strengthen the scalability of the application.
- Learned how to deploy services with Docker to ensure containerization for a microservice architecture.
- Tools Applied: **Svelte, Node.js, Express, MongoDB, Docker, Bootstrap, HTML/CSS/Javascript**

**Patient Tracker System:** December 2023

- Collaborated with a team to make a web application for CS 520 (Theory of Software Engineering).
- Participated in UI/UX design sessions with the team to ensure friendly website design.
- Conducted integration testing to verify end-to-end connectivity and functionality.
- Designed and implemented effective routing with Express.js to enhance visibility and functionality.
- Collaborated on creating an RESTful API in Node.js that seamlessly connected to a PostgreSQL database.
- Tools Applied: **React.js, Node.js, Express, PostgreSQL, Bootstrap, HTML/CSS/Javascript**