

# BRIAN DANG

dangbrian96@gmail.com

[linkedin.com/in/brian-dang2024](https://www.linkedin.com/in/brian-dang2024)

[github.com/DarzyD](https://github.com/DarzyD)

## EDUCATION

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**University of Massachusetts Amherst**

Amherst, MA

B.S. in Computer Science, GPA: 3.67/4.0

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

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**Languages:** Javascript, Typescript, Java, Python, SQL, C, C++

**Frameworks, Tools and Technologies:** Git, Linux, Node.js, Express.js, Java Spring, Angular, React, Svelte, PostgreSQL, MongoDB, Docker, Visual Studio Code

## PROFESSIONAL EXPERIENCE

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**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, and strengthening security through Sonarqube warnings.
- Participated in an Agile environment with daily standups and weekly presentations.
- Designed Java Spring endpoints for Siege's RESTful API, ensuring seamless integration with the Angular front-end.
- Implemented a file retrieval feature that obtains files matching a user-defined query and displays them to the user.
- Created JUnit unit tests to ensure code functionality, leading to further bug squashing.

## PROJECTS

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**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.
- Deployed services with Docker to ensure containerization and microservice-based architecture.
- Tools Applied: **Svelte, Node.js, Express, MongoDB, Docker, Bootstrap, HTML/CSS/Javascript**

**Patient Tracker System:**

December 2023

- Cooperated with a team in an agile environment to develop a PTS for CS 520 (Theory of Software Engineering).
- Created web page mockup designs and later implemented them using React.js, NextUI, and Bootstrap.
- Verified end-to-end connectivity and expected behavior through ongoing integration testing across the application.
- 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**

**TCP/UDP Client-Server Calculator:**

December 2022

- Built a calculator for CS 453 (Computer Networks) that emulates sending data with TCP and UDP.
- Defined client and server requirements, including text file format, valid operators, and error codes.
- Gained a deeper understanding of how the socket library works with TCP and UDP via Python.
- Tools Applied: **Python**