

# Siddharth Jain

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## EDUCATION

**University of Massachusetts, Amherst, MA** GPA: 3.80 Aug 2020 - May 2024  
*Bachelor of Science in Computer Science, minor in Mathematics*

- **Distinctions:** Chancellor's Award (Scholarship for Academic excellency), Dean's International Scholarship, Dean's List (Fall 2020, Spring 2021, Fall 2021),
- **Organizations:** Software Developer @ CICSOF (UMass), Member of Product Management Club (UMass)
- **Relevant Coursework:** Machine Learning\*, Artificial Intelligence\*, Computation\*, Statistical Methods\*, Differential Equations\*, Programming in Java & 'C', Data Structures/Algorithms in Java, Reasoning Under Uncertainty, Programming Methodology (JavaScript), Multivariate Calculus

\*In Progress

## WORK EXPERIENCE

**Microsoft - Tech Resilience Program** Mar 2021 - Apr 2021  
*Mentee*

- Participated in Microsoft's Tech Resilience Program, was mentored by seasoned industry professionals
- Sessions included multiple group projects that required the implementation of various computational and mathematical skills
- Analyzed the problem of optimal camera positioning and recommended a solution to it

**Sylvan Residential Area House Council, UMass, Amherst, MA** Oct 2021 - Present  
*President*

- Handled operations of the House Council in a residential area having 1400+ residents
- A spokesperson for my House Council and co-signing authority on monetary matters
- Developed meeting agendas and conduct bi-weekly House Council cadence
- Conducted weekly meetings with Residential Director, advisors and other House Council officers

**Worcester Dining Commons, UMass, Amherst, MA** Sep 2021 - Present  
*Student Employee*

- Developed great customer service skills as a server
- Communicated regularly with the supervisor to provide input and recommendations for improvement

## PERSONAL PROJECTS

🔗 **GitHub Messenger:**

- Served the backend of this messaging application using the Spring Boot framework and rendered the UI using Thymeleaf
- Implemented authentication with OAuth login using GitHub
- Managed data using Apache Cassandra in order to fulfil the goal of building a web application that is highly scalable and available for millions of users

🔗 **Cricket Tournament Dashboard:**

- Designed the main server application using Spring Boot and ingested the data using Spring Batch
- Implemented JPQL and JPA repositories to interact with the database
- Engineered the frontend by integrating modern functional components, hooks, and effects in the React framework
- Generated REST API calls from the React App to the Spring Boot end-point
- Styled the UI using CSS grids and deployed the Spring application on AWS Elastic Beanstalk

🔗 **Automated Emergency Room (ER) Triage System:**

- Implemented a futuristic, efficient, and automated emergency room (ER) triage system using an array-based heap.
- The system receives data in the form of patient and injury pairs over time and automatically assign patients to doctors as the resources become available depending on the severity of the injury

🔗 **Drone Delivery System:**

- This project is designed to automate the deployment of drones to deliver life essentials in a post-pandemic world
- In order to provide fast and responsive customer services, the drone updates the route to skip those with no active order, using generic classes that implement particular interfaces and List ADTs

## TECH STACK

**Frameworks:** ReactJS, Spring Boot, Android, HTML 5/CSS 3 **Dev Tools:** Git, Postman, Insomnia, VS Code, NetBeans, Bootstrap  
**Languages:** Java (proficient), JavaScript (proficient), C, SQL **Databases:** MongoDB, RDBMS (MySQL), Cassandra (NoSQL)