

Umar Ali Manzoor

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EDUCATION

GPA: 3.6/4.0

Georgia Institute of Technology, Bachelor of Science in Computer Science

August 2021 - Current

Atlanta, Georgia

- **Expected Graduation:** May 2024
- **Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Linear Algebra, Applied Combinatorics, Probability and Statistics, Applications and Design, Computer Organization and Programs, Computer Audio

PROJECTS

Swiftly

August 2023 - December 2023

- Developed a mobile application designed to revolutionize the in-store shopping experience by enabling users to scan, add to cart, and checkout all on their phone, eliminating the use of long checkout lines
- Utilized React-Native for the front-end, AWS DynamoDB for the database, Node.js for the back-end, and Stripe to handle transactions within the app
- User tests showed Swiftly to be upwards of 29x faster at peak shopping times and about 10x faster during normal shopping hours

Georgia Tech Campus Discovery

August - December 2022

- Developed an interactive website to help Georgia Tech students plan and organize student organization events, allowing them to utilize specific features such as RSVP's and geolocation event mapping
- Utilized React for the front-end, MongoDB for the database, Next.js for the backend framework, and Node.js as the backend
- Used by student organizations to organize nine events with attendees ranging from 50 - 200 people during the spring semester

EXPERIENCE

Software Integration Engineer Intern, Georgia Pacific

May - August 2023

Atlanta, Georgia

- Developed messaging system using publish-subscribe architecture with NATS.io for a distributed system
- Established connector between NATS cluster and third-party server running the OPC-UA protocol
- Implemented connector between NATS cluster and an AWS S3 bucket
- Utilized Postman API testing and version control with Git during project development
- Improved PLC to destination server communication time by ~20%

Teaching Assistant, Georgia State University

June - July 2021

Atlanta, Georgia

- Assisted students with reviewing course material and improving comprehension assigned by the professor
- Led teach-in discussions on specific course content with students to prepare them for exams
- Students who came to sessions were 50% more likely to get an A in the course than students who did not

SKILLS

Coding Languages: Python, Java, Javascript, GoLang, HTML, CSS

Software/Tools: React, React-Native, Git, Postman, AWS S3, AWS DynamoDB, NATS.io

ACTIVITIES AND LEADERSHIP

Vice President, Muslim Student Association

August 2023 - May 2024

- Led committee of 10 members that put on weekly religious lectures, monthly events with 50+ people, semesterly events with 200+ people, as well as organized dinners for Muslim students at Georgia Tech during the month of Ramadan

Treasurer, Pakistani Student Association

August - December 2022

- Handled Finances for student organization with a budget of \$20,000 annually by applying for grants and fundraising from outside sources including the Pakistani Embassy

Conference Organizer/Volunteer Lead, Miftaah Institute

January - March 2023

- Led committee of 60 volunteers to organize religious conference for 1,800+ attendees and seven world renowned religious scholars as speakers