

Achal Mukkapati

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EDUCATION

Rutgers University

Bachelor of Science in Computer Science & Business Analytics Information Technology

New Brunswick, NJ

May 2025

- **Computer Science GPA:** 3.75/4.0
- **Relevant Coursework:** Data Structures, Computer Architecture, Discrete Structures 1, Financial Accounting, Calculus II

WORK EXPERIENCE

New Beginnings

Web Developer

New Brunswick, New Jersey

September 2022 – Present

- Implemented new login feature using backend server software while leading initiative to form and design Advanced Programming Interfaces that are connected to servers which were created using JavaScript syntax
- Expanded current website to contain custom graphics and icons pertaining to the company mission statement, also led initiative to create, develop and implement a new vision for an effective and engaging full website makeover

Code Ninjas

Code Instructor

Old Bridge, New Jersey

May 2022 – September 2022

- Spearheaded courses for following subjects: Scratch for junior students, Roblox and Minecraft for design and scripting, 3D Printing for advanced modeling and design principles, as well as web development (HTML) for 11 older students
- Collaborated with peers to establish a positive learning environment for students, and incorporated activities to make sure students were able to effectively understand assignments

Antonio's Pizza

Cashier

Monroe, New Jersey

June 2021 – September 2022

- Catalogued and monitored daily orders while assisting 65+ customers daily, and answered customer questions
- Engaged with customers about inconveniences, and delays in delivery process through phone calls and in person while also overseeing payments and receipts of all customers in store

TECHNICAL PROJECTS

Prerequisite Checker - Java

March 2022

- Executed a course prerequisite checker for the Rutgers Computer Science department by utilizing Depth-first Search Algorithm to locate all direct and indirect prerequisites of specific courses to map and call functions
- Utilized navigation of Rutgers courses through application of HashMap and Graph data structures to return results

Huffman Coding Algorithm – Java

April 2022

- Enforced a data compression algorithm, Huffman coding algorithm, to decode and code files while also being able to achieve computational complexity in $O(n \log(n))$ runtime with reduced filing size of up to 75% in certain test cases
- Optimized priority queues and search trees which were used to reduce file size by respectively accounting for character occurrence frequency in the inputted file and ASCII value memory through proper string orientation

EXTRACURRICULURS

Rutgers Mobile App Development

Android App Development Incubator

New Brunswick, New Jersey

February 2023 – Present

- Utilized Android Studio and XCode using the pre-built main infrastructure sourced from Google
- Enforced application ideas, while working in a team of four, to begin developing production-ready applications for Android

Rutgers Enactus

Competition Committee

New Brunswick, New Jersey

September 2022 – Present

- Created a presentation with my peers to present business idea state-wide to make a recognizable environmental impact
- Collaborated with various team members to compile presentation elements for the Enactus National competition through created video content and led team of presenters in preparation for the competition

Peace Village

Web Developer, Event Coordinator

Haines Falls, New York

July 2020 - Present

- Chosen to help organize *Peace in the Park* event in July 2021 and 2022, at Central Park – oversaw attendance along with maintaining company website to ensure that no bugs or miscommunications occurred throughout entirety of event
- Organized and furthered 2 retreats while making accommodations for over 300 people, retreat responsibilities included managing room accommodations and delegating food services to people based on dietary needs

SKILLS, ACTIVITIES & INTERESTS

Proficient Languages & Frameworks: C programming, Java, HTML/CSS, JavaScript, Bootstrap, Python, SQL

Technical Skills: MS Office, Google Sheets and Slides, Adobe Illustrator, Superimpose, Tableau

Languages: Fluent Telugu, Elementary Spanish, Elementary Hindi

Activities: 7 Billion Acts of Goodness, Youth and Government (Delegation Officer), BITS, MSC Summer League Basketball

Interests: Tennis (Highschool Captain), Basketball, NFL (New York Jets), Anime (Naruto), Automobiles