Nikhil Munagala

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Education

Rutgers University - New Brunswick *GPA: 3.575/4.00*

B.S. Computer Science Major, Mathematics Minor *May 2025*

- **Relevant Coursework:** Data Structures, Computer Architecture, Discrete Structures I, Systems Programming, Principles of Programming Languages, Math Theory of Probability

Skills

- **Languages:** Java, HTML, CSS, Bootstrap, Javascript, Typescript, MATLAB, Python, C, Scheme
- **Technologies:** Git, Bash, Linux, AWS
- **Frameworks/Libraries**: NumPy, POSIX (C)

Experience

Calculus 2 Learning Assistant (Rutgers University) Sept 2022 - May 2023

- Provided support to over 80 students enrolled in the Calculus 2 course by leading weekly recitation classes featuring group-based activities aimed to reinforce key concepts taught by the professor
- Created written solutions with detailed explanations for the group-based activities used during recitations

Data Structures Assignment Developer (Rutgers University) Jun 2022 - Aug 2022

- Developed assignments in Java in teams applying data structures in real-world situations for **1000**+ students taking the course every semester
- Utilized OOP for class structures and solution files for the assignments documented using JavaDoc
- Participated in weekly code reviews with teams to progressively meet deadlines

Projects

Truthtable *C* Dec 2022

- Constructed a digital logic circuit using gates (AND, OR, MULTIPEXER, etc.) to create a truth table
- Parsed information about input/output variables and gates from a .txt file to generate a digital circuit
- Utilized bit-shifting to generate all possible input combinations of the truth table to feed them into the circuit to calculate the corresponding outputs, which worked for **100%** of the test cases

Combnoomb *Python* May 2022 - Jun 2022

- Designed a Discord bot using Discord.py enabling linear algebra operations such as matrix-vector multiplication and reduced row-echelon form
- Leveraged the Numpy module to produce efficient matrix multiplication

Clubs/Organizations

USACS Tech Director May 2022 - May 2023

- Facilitated weekly USACS Labs meetings to advise 20+ members in side project development, in addition to conducting workshops teaching the fundamentals of technologies
- Organized and administered UHACCS, the hackathon for USACS, where 50+ students create projects in teams for 10 hours that will get judged the following day