Amogh Sarangdhar

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EDUCATION

RUTGERS UNIVERSITY

B.Sc. in Computer Science

May 2024 | New Brunswick, NJ

Dean's List

GPA: 3.9 / 4.0

LINKS

Linkedin: @Amogh Sarangdhar

Github: @Amogh Sarangdhar

Website: @Amogh Sarangdhar

COURSEWORK

UNDERGRADUATE

- Data Structures and Algorithms
- Information Technology and Informatics
- Calculus 2
- Computer Architecture
- Software Methodology
- Discrete Structures 1 and 2
- Design and Analysis of Comp Algorithms
- Principle of Information and Data Management

SKILLS

Technical Skills:

- Programming Languages: Java, Python, C, C++
- Frameworks: Android Studio
- Paradigm: Object Oriented Programming (OOPS)
- Databases: mySQL, MongoDB (familiar)
- Version Control Systems: Git, Github

AWARDS

- BigRedHacks Hackathon Cornell University: MLH Prize- Best Space App powered by Space Force
- RU - Hackathon: Spring 2021
- Dean's List, Honors SAS

EXPERIENCE

RUTGERS UNIVERSITY | Research Assistant

September 2022 - current

- Working with CS department head Prof. Nagarakatte to build correctly rounded math libraries for multiple representations
- Correct representations in 32-bit floating pt, 32-bit posits, 16-bit posits, bfloat16, and tensorfloat32
- Using the RLIBM approach to identify the rounding intervals to generate correct and efficient polynomials

PARSIPPANY AREA CHAMBER OF COMMERCE | Intern

Summer 2020

- Worked with Executive Board Member- Mr.Cahill.
- Linked Parsippany-based businesses and communities in a common enterprise
- Arranged company networkings and held meetings

PROJECTS

CAFETERIA | Android Application

May 2022

- Used Android Studio framework and object oriented programming to write over 5000+ lines of code in Java
- Functionality to customize 5 different types of coffees and 10 different flavors of donuts
- Also has the functionality to sort the orders by name, price, and type of order. The orders can also be exported to a text file

ONE-SHOT ALGORITHM | Lead Programmer

October 2021

- Uses historical data to predict house prices based on particular attributes
- 300+ lines of C code to transpose, multiply and invert matrices to find the house price
- Uses simple machine learning techniques to predict prices based on the data given

SELF DETECTION OF LANES | Lead Programmer

May 2020

- Used Python and Computer Vision in Atom
- Program develops binary grey-scale image
- The program enables cars to self detect lanes while driving

ACTIVITIES AND MEMBERSHIPS

STUDENT ALLIANCE OF COMPUTER SCIENTISTS

Community Chair | 2021

RU MOBILE DEVELOPMENT CLUB

2020 - current