

# SHRUSHTI SONI

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finanalyze.in

## Education

### University of Massachusetts Amherst

Graduating May 2023

Bachelor of Science in Computer Science, GPA 3.98 (Dean's List Fall 2020, Spring 2021, Fall 2021) Amherst, Massachusetts

## Relevant Coursework

- Introduction to Java
- Software Methodology
- Algorithms Analysis
- Data Structures
- Multivariate Calculus
- Functional Programming
- Programming Methodology
- Reasoning Under Uncertainty
- Computer Systems
- Principles of Introduction to Computation

## Technical Skills

**Languages:** Java, C/C++, Python, HTML/CSS, JavaScript, SQL

**Developer Tools:** VS Code, Eclipse, Google Cloud Platform, Android Studio

**Technologies/Frameworks:** Linux, Jenkins, GitHub, JUnit, WordPress

## Experience

### College of Information and Computer Science, UMass Amherst

Dec 2021 – Jan 2022

Undergraduate Research Volunteer

Amherst, Massachusetts

- Worked with a team of a PhD mentor and undergraduate students and researched various ways through which bloom filters can be optimized to reduce the false positive rate.
- Designed solutions in which the insertion, query and deletion can be made more efficient in a bloom filter.
- Implemented code for the Learned Counting Bloom Filter in Python, developed in Pycharm

### FinAnalyze

May 2021 – Present

Co-Founder

Amherst, Massachusetts

- Developed a service to analyse the financial data from the users to generate financial reports, both on a smaller as well as larger scale.
- Built the android mobile application version of FinAnalyze using Java and Android Studio, that lets users to log into their accounts and have a custom financial analysis report generated.
- Explored ways to visualize and send a daily financial report of client using the web version using HTML, Javascript, and CSS.

### AT&T

July 2021 – August 2021

Summer Learning Academy Extern

Remote

- Mentored under tech industry experts with their live sessions on topics like Artificial Intelligence, 5G, Software Engineering and Internet of Things.
- Connected with a diverse group of peers coming from all over the world to collaborate over technical projects.

## Projects

### Matrix Challenger | Android Studio, Java

August 2021 - September 2021

- Developed a matrix challenger android application that lets users select the level of difficulty from easy, medium and hard matrices and gives about 30, 60, and 90 seconds to solve respective matrices.
- Built a UI that allows the user to solve the matrix within the android application itself by providing options to multiply, add and subtracting rows and columns in accordance to matrix operations.
- Developed an inclusive knowledge of the widgets like navigation bar, List/Recycler view and Layouts.

### Tread | Android Studio, Java

October 2020 - December 2020

- Designed an android application using Java to track the number of steps walked by the user.
- Used the Sensor API in Android Hardware to track, save, and load data about the steps walked.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

## Leadership / Extracurricular

### UMass ACM ICPC

Spring 2021 – Present

Secretary

University of Massachusetts Amherst

- Organised a team of 7 members and ran weekly meetings to discuss ideas and plans to do better in the upcoming ACM ICPC competitions.
- Led workshops for 100+ students to teach them about problem solving in the context of competitive programming.