

# Sanskriti Agarwal

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## EDUCATION

### BITS Pilani, Goa Campus

Aug 2019 - Jun 2024

- Master of Science in Physics.

### BITS Pilani, Goa Campus

Aug 2020 - Jun 2024

- Bachelor of Engineering in Electrical and Electronics Engineering

## SKILLS

C/C++, JAVA, AWS, Python, Data Structures, Algorithms, Object Oriented Programming, DataBase Management System, SQL, Operating System, Git, Linux, JUnit, Flutter, HTML/CSS, JavaScript.

## EXPERIENCE

### Amazon, Bengaluru

Jul 2023 - Dec 2023

#### Software Development Intern

- Developed an on-call support tool to streamline ticket details retrieval, saving 15 minutes of daily on-call SDE bandwidth.
- Utilised AWS services, including Lambda, S3, Glue, SNS, SQS, Step Functions and Athena to enhance operational efficiency of the tool.
- Engineered an efficient caching solution, reducing API call latency from 20 seconds to a few milliseconds.
- Leveraged AWS technologies including S3, Lambda and AppConfig to significantly enhance system performance.
- Automated caching updates by establishing infrastructure and logical workflows, eliminating the need for manual triggers and reducing host boot time by 30 seconds.

### Learning Mate - Mumbai

Jun 2021 - Jul 2021

#### Technology Intern

- Forecasted the factors affecting enrolment in higher education in US, resolving retention issues.
- Transformed data sets by quantitative and qualitative analysis into compelling visuals.
- Formulated data analytics practice from the ground up by providing expertise in analysing.
- Spearheaded the design and build of visualisations and analytics using Google Data Studio.

## PROJECTS

### Simulation of Round Robin Scheduling Algorithm with pre-emptive priority in C

Apr 2023

- Successfully simulated the scheduling algorithm in C for any given user input with customisable parameters.

### Custom System Call Addition to LINUX Kernel 5.4.0 in C

Apr 2023

- Added a Custom system call to Linux Kernel 5.4.0 for adding two float numbers. Recompiled the Kernel successfully.

### News App

Mar 2022

- A fully functional, news app made using Flutter and News API.

### Event Study (Security Analysis and Portfolio Management)

May 2022

- Analyzed stock market tickers to evaluate response to a major business news announcement using Python.

## LEADERSHIP ROLES

### Waves

Jul 2021 - May 2022

#### Searock Head

- Led a team of 50+ members for the planning and execution of 15+ semi-professional band events at 10+ venues.

## VOLUNTEER EXPERIENCE

### BITS Pilani Alumni Association

Aug 2021 - Jul 2022

#### Operations Volunteer

- Provided assistance on research and writing, event organization and volunteer onboarding.

## SCHOLARSHIP

### MCN Scholarship

Aug 2023

- Recurring Scholarship awarded for academic excellence.