

# Arushi Tibrewal

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## EDUCATION

### University of Maryland, College Park

*Bachelor of Science in Computer Science (GPA: 3.774/4.0)*

College Park, MD

*Expected May 2025*

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, MySQL, HTML5, MATLAB, SQL (Postgres)

**Frameworks:** Swing, JavaFX, SQLAlchemy, XQuartz

**Developer Tools:** PyCharm, Git, VS Code, Visual Studio

**Libraries:** NumPy, Matplotlib, MySQL Connector, Pandas, OpenCV, Keras, SciPy

## EXPERIENCE

### Software Engineering Intern

June 2022 – Aug. 2022

*Tata Consultancy Services | Python, Flask, SQLAlchemy, PostgreSQL*

*Kolkata, India*

- Developing a chatbot and feedback module for the Cludonomy platform
- Providing industry-specific and stakeholder-specific information about shifting applications to the cloud

### First-year Innovation and Research Experience (FIRE)

Aug. 2021 – Present

*University of Maryland, College Park | Pandas, SciPy, NumPy, Matplotlib, Git*

*College Park, MD*

- Conducting research in the Quantum Machine Learning cluster
- Conducting research in the Simulation and Particle Detection cluster concentrating on computing-based research using simulations from novel, high energy particle detectors
- Working with open-source web applications and reading/analyzing research articles

### Teaching Assistant: CMSC131 Intro to Object Oriented Programming 1

Aug. 2022 – Present

*University of Maryland, College Park | Java*

*College Park, MD*

- Holding office hours and helping students with Java programming and class projects and grading student assignments and papers

### Research Assistant

June 2022 – Aug. 2022

*Government of West Bengal*

*Kolkata, India*

- Analyzing 10+ research papers about cybersecurity issues in Internet of Things(IoT) and writing a final article

### Machine Learning Research Intern

June 2020 – Aug. 2020

*Indian Institute of Technology Kharagpur | Python, Matplotlib*

*Kharagpur, India*

- Collaborated with Prof. Pabitra Mitra to design a ML model to compare lungs affected by the Covid-19 virus
- Provided and used computer visualization (histograms) for comparisons

## PROJECTS

### Graphs and Dijkstra's algorithm | Java

May 2022

- Implemented a graph representation and BFS, DFS, and Dijkstra's algorithm for shortest path computation

### Binary Search Tree ("Arbolito" project) | Java

Apr. 2022

- Implemented different operations associated with a binary search tree, such as: adding/deleting nodes, finding maximum/minimum nodes, in-order processing, finding the sub-tree from a given node, and finding leaf nodes

### Interest Table | Java

Mar. 2022

- Implemented Java inner classes and used event-driven programming using basic Java GUI to develop a simple and compound interest calculator application

### Movie Ticket Booking System | Python, MySQL

Jan. 2020 – Apr. 2020

- Designed and developed a ticket booking system allowing employees and customers to look for bookings, add/delete reservations, and search records and collaborated with 2 students and delegated work as the project lead

## ACTIVITIES

### Student Organisations

Aug. 2021 – Present

XR Club, Bitcamp (Hackathon), Association of Women in Computing (AWC), Technica (Hackathon)