

# Chythra Malapati

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## Education

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA

Aug 2023 – Dec 2026

Computer Science - Data-Centric Computing, Honors College

Overall GPA: **3.84** In Major GPA: **4.00**

Deep Run High School, Henrico, VA

Sept 2019- Jun 2023

Center for Information Technology

GPA: **4.38**

## Internship & Research Experience

Markel, *Software Engineering Intern*

Jun 2025 – Present

- Wrote *Python* and *SQL* scripts in *Azure Databricks* to detect and register timestamp columns across large, replicated databases, enabling accurate replication health monitoring via *Azure Data Lake* pipelines for their backup and restore.
- Working on integrating two policy management platforms into an internal AI chatbot by connecting APIs and using semantic indexing to improve prompt understanding and content retrieval. Using *JIRA* to manage the project.
- Contributing to chatbot backend (*C#*) and frontend (*Angular.js*) enhancements, ensuring seamless policy query handling and intelligent user interactions.

Indivior, *IT Intern / IT Global Delivery Contractor*

May 2024 – Mar 2025

- Collaborated with business and IT teams to resolve technical issues through *ServiceNow*, utilized *Power BI* to develop advanced visualizations of large datasets for business teams, and worked alongside IT to enable user access to applications through *Intune* and *Azure AD* group assignments as requested
- Supported various projects, including global contact synchronization across work phones, on-boarding new employees, and developing video-based content through *Adobe Premiere Pro* for internal knowledge sharing and support
- Developed **160+** comprehensive knowledge base articles to enhance the company's internal documentation

Reestablish Richmond, *Database Intern*

Jun 2022 – Aug 2022

- Responsible for managing database project, which involved researching *FileMakerPro*'s functionality and user interface to transform and restructure the current organization's client and volunteer database
- Learned the importance of conducting in-depth and thorough research when working with sensitive and large-scale data; received tremendous hands-on experience with relational database tables and structures

Intrusion Detection Security Lab, VCU, *Research Assistant*

Jul 2021 – Aug 2022

- Worked alongside Dr. Carol Fung and a research team of high-school students to analyze the propagation of conspiracy theories on Twitter to develop a score computing algorithm with *Python* that assesses the likelihood of users and posts disseminating false information.
- Analyzed and labeled **over 4000+** Twitter posts, users, and hashtags to provide an advanced identification system of conspiracy communities. Utilized *Tweepy* to crawl Tweets from Twitter's API for testing.

## Publications

Kokkera, Kshitij., Chen, Aileen., Malapati, Chythra., Demchenko, Alex., Fung, Carol. (2023). A Study on Conspiracy Theory Propagation Networks on Twitter. *IEEE/IFIP Network Operations and Management Symposium*.

## Work Experience

Panera Bread, *Cashier/Barista*

Mar 2023- Jul 2023

- Worked to provide exceptional customer service, ensured customers' needs were met, fulfilled bakery and barista drink orders, maintained the cleanliness of the dining room and customer common areas while ensuring condiments, utensils, and other customer supplies were stocked

## Certifications

Amazon Web Services (AWS) Certified Cloud Practitioner

- This certification validates foundational knowledge of the AWS Cloud, including understanding core services, cloud concepts, security, pricing, and architecture

## Leadership Roles

The Association for Women in Computing (Virginia Tech), *CAMEO Chair*

April 2025 – Present

- Coordinating club meetings in collaboration with leadership and working with the Council for the Advancement of Minority Engineering Organizations (CAMEO) to promote career fair and other professional opportunities.