

# Pradyumann Singhal

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## Education

**Bachelor of Science: Computer Science, Minor in Mathematics**

**Grad: May 2023**

Virginia Tech

Cumulative GPA - 3.87/4.00, Dean's List (Fall 2019, Fall 2020 - Spring 2022)

Member of Honors College

## Experience

**IT Devops Intern**

**May 2022 – Aug 2022**

Equinix

- Increased the developer's efficiency by creating 6 Jenkins CI/CD pipelines
- Enhanced security by integrating Hashicorp Vault with IT Enterprise Applications
- Containerized applications using Docker and Kubernetes making them more modular

**Immersive Developer**

**Sep 2021 – Present**

Virginia Tech – ARIES

- Designing for 'Dinosaur' project which aims to create 'living exhibits' using AR
- Creating an AR application using WebXR to scan, identify and animate the dinosaur

**Peer Tutor**

**Jan 2021– May 2022**

Virginia Tech - Student Success Center

- Tutoring college students in Mathematics, Chemistry and Computer Science
- Helped students set and achieve their academic goals successfully

**Undergraduate Research Assistant**

**Oct 2019 - Present**

Virginia Tech - ICTAS II

- Used spectrogram and envelope of the echoes to classify locations in natural forest
- Applied Deep Learning Algorithms like Convolutional Neural Networks (CNN) and Long Short-Term Memory Networks (LSTM) to improve classification accuracy

**Programming Team Member**

**Feb 2021 - Apr 2021**

Next Gen Coders Network (NGCN) – World Learning

- Designed and programmed a website by using ReactJS and Node.js
- Contributed to a team composed of members from different countries using Git

## Projects

**Covid Vaccination Visualization**

**Summer 2021**

Created choropleth maps using vaccination doses available per state using Python

**Class Forum Webapp**

**Spring 2021**

Programmed a full stack forum webapp for discussion about classes using MEAN Stack

## Leadership and Activities

**Analyst**

**Sep 2021 - Present**

The Consulting Group at Virginia Tech

- Completed a 9-week training program and gained consulting industry insight
- Enhanced soft and technical skills by completing 2 consulting cases

**General Officer**

**May 2021 - Present**

The Institute of Electrical and Electronics Engineers at Virginia Tech

- Attending the regular meetings and assisting executives with various tasks.
- Planning and hosting General Body Meetings and Fun Friday's.

**Co-Vice President**

**Dec 2020 - Present**

Artificial Intelligence and Machine Learning Club at Virginia Tech

- Working with the President to help lead the Board effectively.
- Creating machine learning projects by working collaboratively with other members.

## Skills

- |                                    |                              |
|------------------------------------|------------------------------|
| • Languages – Java, Python, C, C++ | • Cloud - Docker, Kubernetes |
| • Front-end – AngularJS, ReactJS   | • Prometheus, Grafana        |
| • Back-end – Node.js               | • Data - MATLAB, Tableau     |
| • Databases - SQL, MongoDB         | • Jenkins                    |
| • Web - HTML/CSS/JavaScript        | • Git, Linux                 |