

# Ayush Manish Shah

Email: [ayushmanish@vt.edu](mailto:ayushmanish@vt.edu) | GitHub: [ayushshah1997](https://github.com/ayushshah1997) | Mobile: +1-(540)-824-8358 |  
LinkedIn: [linkedin.com/in/ayush-shah/](https://www.linkedin.com/in/ayush-shah/) | Website: [ayushshah1997.github.io](https://ayushshah1997.github.io)

## EDUCATION

### Master of Engineering in Computer Science

December 2022

Virginia Tech, Blacksburg, VA

Relevant Coursework: Network Architecture & Protocols, Software Engineering, Intermediate Data Structures & Algorithm, Data Analytics, Blockchain Technologies

### Bachelor of Technology in Civil Engineering

April 2019

Veermata Jijabai Technological Institute, India

## SKILLS

- Languages: Java, Python, Javascript, Kotlin, HTML, CSS, SQL
- Technologies: Spark, Databricks, Airflow, NodeJS, Vue.js, Kubernetes, S3, Snowflake, Anomalo

## WORK EXPERIENCE

### Opendoor

May 2022 - August 2022

#### Software Engineer, Intern

Remote, USA

- Engineer on the Data Platform team
- Developed pipelines in Airflow to ingest data from APIs and FTP servers, transform raw data in Spark and insert data into the Snowflake data warehouse
- Automated data quality checks in production to maintain confidence in data using Anomalo
- Modified Opendoor's data ingestion library to add metadata and timestamps across datasets to help the machine learning team prevent model data leakage, segment training, and testing data easily

### Center for Geospatial Information Technology ([CGIT](#)), Virginia Tech

August 2021- Present

#### Graduate Research Assistant

Blacksburg, USA

- Developed a [website](#) for the Virginia DHCD to collect broadband service data from ISPs
- Developed a [website](#) to visualize broadband availability in Virginia
- Developed an internet speed test for users to report the speed provided by their ISP
- Developed a website for Fairfax Police Dept. to filter and visualize vehicle crash data
- Developed a GUI app for RaspberryPi to measure Air Quality
- Technologies: Python, Django, HTML, Javascript, CSS, Tkinter

### Deloitte Consulting India

August 2019 – March 2021

#### Software Engineer

Mumbai, India

- Developed ETL cron jobs in NodeJS to ingest raw text files and insert them into MongoDB
- Developed REST APIs in NodeJS to integrate e-commerce portal with inventory databases
- Developed insurance underwriting software in Java that automated compliance with all regulations and policy premium computation
- Onboard new hires and help them in both technical and non-technical tasks

## PERSONAL PROJECTS

- [Blockchain](#): Simulate mining of a block and measure transaction throughput for sharded vs traditional network
- [Sorting Large Data](#): Implementing virtualization of memory to sort large data
- [Cowin-ping](#): Script to notify via SMS when COVID-19 vaccine slots are available in Mumbai
- [Bookstore](#): E-Commerce bookstore, frontend in Vue.js, backend in Java, and MySQL database
- [Sorting Visualizer](#): Visualisation of Merge, Insertion, Selection, and Bubble sort
- [Techxpansion](#): Newsletter on substack to explain tech concepts in simple language
- [Word Search Puzzle](#): React-Native app for word search puzzle