

EDUCATION

Virginia Tech | Blacksburg, VA.

- *Master of Engineering in Computer Science (Concentration: AI/ML)* – GPA: 3.59/4. Graduation: May 2023
- *Bachelor of Science in Computer Science (Minor: Mathematics)* – GPA: 3.57/4, Cum Laude. Graduation: May 2022

Northern Virginia Community College | Annandale, VA.

- *Associate of Science in Engineering and Computer Science* – GPA: 3.52/4. Graduation: May 2020

Related Coursework: Advanced Machine Learning, Deep Learning, Natural Language Processing, Artificial Intelligence, Software Engineering, Web Application Development, Mobile Application Development, Theory of Algorithms, Data Structures & Algorithms.

SKILLS

Programming Languages: Java, Python, C, C++, Kotlin, Go, C#, R, HTML, CSS, JavaScript, PHP, SQL, ABAP, Ruby, Solidity.
Tools: AWS, SAP, GCP, Linux/Unix, TensorFlow, PyTorch, NumPy, Scikit-learn, Matplotlib, Node.js, Git, Jira, Docker, Kubernetes.
Databases & Frameworks: Firebase, MySQL, MongoDB, SQLite, React.js, Angular.js, Next.js, Bootstrap, Django, Spring Boot.
Other: Problem Solving, Critical Thinking, Leadership, UX Design, Sketching, Painting, Typography, Technical Writing.

EXPERIENCE

Sr. Software Development Engineer, Raytheon Technologies (Collins Aerospace) | Charlotte, NC. June 2022 – Present

- Building application solutions using **ABAP**, **HANA** and **SQL**, and performing data analysis using **Python**.

Software Developer, Systems & Planning Analysis, Inc. | Alexandria, VA.

December 2022 – May 2023

- Built responsive webpages using **HTML**, **Bootstrap** and **JavaScript** for clients to manage a project portfolio worth over \$4bn.
- Built a keyword-based search engine for 20,000+ documents using **Apache Solr** and developed front-end using **Angular.js**.
- Improved existing webpages by optimizing page speed by 80% and working collaboratively using **Git** with other developers.

Software Development Engineer Intern, Raytheon Technologies (Collins Aerospace) | Charlotte, NC.

May 2022 – August 2022

- Developed application solutions using **ABAP**, **HANA** and **SQL**, and GUI which are used by 250+ technicians on daily basis.
- Increased user productivity by 50% by developing GUI using **SAP Screen Personas** and automating tasks using **JavaScript**.
- Optimized the performance of existing features by refactoring code, conducting usability testing, data analysis and research.

Web Developer, Department of Mathematics at Virginia Tech | Blacksburg, VA.

November 2021 – May 2022

- Provided 500+ students with study materials by developing webpages using **PHP**, **HTML/CSS** and stored all data in **MySQL**.
- Improved usability and increased users' average time on the website by 80% by modifying existing and adding new web pages.

PROJECTS

Transaction Classifier (Solo Project: Natural Language Processing)

February 2023 – April 2023

- Built a model to predict categories of transactions and identify frequent purchases using **TensorFlow**, **NumPy** & **Scikit-learn**.
- Achieved 88% accuracy in predicting categories of 10,000 unique transactions by training the model with 40,000 transactions.

Traffic Sign Recognizer (Solo Project: Deep Learning)

February 2023 – April 2023

- Developed a traffic sign recognizer by using a Vision Transformer (ViT) model and trained it on a dataset of 39,209 images.
- Achieved 99.76% accuracy in recognizing 12,630 images of traffic signs by tuning the hyper-parameters and adding features.

IOP Asset Tracker (Group Project: Capstone Project)

February 2023 – April 2023

- Led a team of 5 students and built an NLP model to classify texts based on topics for a company named IntegrityOne Partners.
- Developed a BERT-like model, built front-end using **React.js**, and presented final product to the client meeting the deadline.

Textbook Buddies (Group Project: Mobile Software Development)

February 2021 – May 2021

- Built a textbook trading android app for Virginia Tech students using **Android Studio (Java)** with a team of four people.
- Developed prototype using **Figma**, designed and implemented the login system and the homepage, and stored data in **Firebase**.

CERTIFICATIONS & AWARDS

- ❖ AWS Machine Learning Specialty Certification
- ❖ AWS Developer Certification
- ❖ Google TensorFlow Developer Certification
- ❖ Kubernetes Application Developer Certification

Scholarships: *VTNETS*: \$20,000 towards undergraduate study; *VTech Talent Graduate*: \$15,000 towards graduate study.

Dean's List: Fall 2018, Spring 2019, Spring 2021, Spring 2022.

LEADERSHIP & CAMPUS ACTIVITIES

XYZ Art Gallery, Art Gallery Lead (August 2021 – May 2022): Organized art exhibitions and sold \$10,700 worth of artworks.

Google Developer Students Club at Virginia Tech, General Member (2020 – 2022): Attended hands-on-workshops about **Flutter**.

Virginia Tech AI & ML Club, General Member (2020 – 2023): Attended weekly meetings and discussed various ML models.