

# Ashaz Ahmed

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[Personal Portfolio](#)

## EXPERIENCE

### Accenture Federal Services

#### Data & AI Solutions Architect

Arlington, VA

February 2024 – Present

- Developed a serverless data analytics platform in AWS SageMaker Studio, used by **100+ users**, improving accessibility and reducing Python package installation time from **2 months to 2 weeks**
- Built a ML data anomaly detection system using a tabular autoencoder model, increasing anomaly detection accuracy by **90%** and replacing a manual process with proactive alerts for stakeholders developed with PyTorch, AWS SageMaker, and Oracle Database technology
- Designed and deployed an LLM-powered support agent using AWS Lambda, OpenSearch, and GPT-4o, reducing FAFSA issue resolution time by **90%** and handling **1.4 million support calls** while reducing human agent workload
- Deployed a customer-facing LLM chatbot using AWS Lambda, EventBridge, Kendra, and LangChain, assisting 14 million users in understanding financial aid loan statuses and troubleshooting FAFSA form issues

### General Dynamics Information Technology (GDIT)

#### Software Developer Associate

Falls Church, VA (remote)

June 2022 – August 2023

- Worked on the ISEE contract with the Defense Intelligence Agency (DIA) concerning the automation of admin account creation along with identity, credential, and access management (ICAM) for all other users
- Collaborated and led a team of 3 software developer interns to write and document PowerShell scripts to automate the migration of thousands of over-seas Department of Defense employees MS Exchange email accounts to improve overall security
- Engaged with stakeholders throughout the company to deliver regular progress updates, manage expectations, and build transparency across the organization

### Hokie Electric Vehicle Team (HEVT)

#### Undergraduate Researcher

Blacksburg, VA

December 2022 – Present

- Conducted research for the Cadillac Lyric EcoCar 4-year design competition sponsored by General Electric
- Designed and researched different connected and automated vehicle systems (CAVs) to improve overall fuel efficiency
- Developed autonomous vehicle driving scenarios using tools such as MATLAB, Simulink, and TensorFlow

## EDUCATION

### Virginia Polytechnic Institute and State University (Virginia Tech)

#### Bachelor of Science, Computer Science

Cumulative GPA: 3.58 / 4.00

Relevant Coursework: Computer Systems, Software Design & Data Structures, iOS Mobile Development

Blacksburg, VA

Graduation: Winter 2023

Dean's List: Fall 2021

## PROJECTS AND LEADERSHIP

### Acadia, iOS Application

January 2024 – Present

- Developed an iOS app using Swift, Google Cloud Platform, and NFC technology to automate college classroom attendance tracking, replacing manual roll calls
- Deployed the app at Virginia Tech, where it is actively used by **140+** students and faculty to streamline attendance management
- Leveraged NFC card integration to ensure secure and efficient attendance logging, reducing administrative workload for instructors

### Spices and Slices, Web Application

June 2023 – August 2023

- Developed and launched a dynamic web application leveraging ReactJS for the front-end and integrating with a Google Sheet backend to manage a diverse inventory of over 400 items
- Pioneered the incorporation of an automated confirmation email feature for customers submitting invoices, streamlining order processing and enhancing client communication, leading to increased customer satisfaction
- Continuously monitored user engagement metrics and feedback, driving iterative improvements to the web application's features and functionality, and contributing to its ongoing success in meeting user needs
- Developed a standardized JSON-based system for classifying over 400 different types of recyclable objects, making it easy to incorporate new ones in the future

## SKILLS AND INTERESTS

**Certifications:** AWS Solutions Architect (In Progress)

**Programming Languages:** C, Python, Java, JavaScript, HTML, CSS, Swift, SQL

**Tools:** Agile Workflows, NodeJS, AWS Cloud Services, Ansible, Terraform

**Interests:** Travel (visited over 15 countries), Guitar, Digital and Film Photography, Videography, Marathon Finisher, Track and Field, and Reading