

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
- Built a responsive React frontend with TailwindCSS, providing real-time attendance updates through seamless integration with Google Firebase

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