

Ashaz Ahmed

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[Personal Portfolio](#)

EXPERIENCE

Accenture Federal Services

Solutions Architect

Arlington, VA

February 2024 – Present

- Delivered a versatile data analytics platform using AWS SageMaker Studio, integrating with Oracle, Greenplum, and PostgreSQL for efficient, real-time data insights
- Developed a data anomaly detection system using a tabular autoencoder model, applying advanced machine learning techniques such as feature engineering and neural networks to improve anomaly identification and data quality
- Designed and deployed an LLM-powered support agent using AWS Lambda, OpenSearch, and GPT-4o, reducing FAFSA issue resolution time for support agents by streamlining access to common troubleshooting data
- Architected and deployed data streaming and replication solutions using Confluent and Kafka, leveraging AWS S3 for scalable storage and data redundancy

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

Blacksburg, VA

Cumulative GPA: 3.58 / 4.00

Graduation: Winter 2023

Dean's List: Fall 2021

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

PROJECTS AND LEADERSHIP

[Spices and Slices](#), Web Application

June 2023 – Present

- 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

[Symbiota](#), Web Application

May 2023

- Developed and deployed a full-stack web application focused on efficient and easy recycling, leveraging Earth911's and Google Maps API for comprehensive material search, retrieval, and data visualization
- Created a microservice architecture by encapsulating functionality into independent services, such as AWS Lambda functions and AWS Amplify, allowing for modular development, deployment, and scalability
- Successfully debugged REST API calls using Postman, ensuring proper integration and functionality of the custom API endpoints, enhancing the reliability and robustness of the application
- 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, Python

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