

Bashir Ahmed

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EDUCATION

• Duke University

Aug 2021 - May 2025

Bachelor of Science in Computer Science; Minor in Asian & Middle Eastern Studies

Durham, NC

- **Relevant Courses:** Data Structures and Algorithms, Object-Oriented Programming, Design and Analysis of Algorithms, Computer Systems Software, Logic and Discrete Math, Database Systems, Data Science, Server-Side Web Applications, Computational Approaches to Human Language
- **Extracurriculars:** National Society of Black Engineers (NSBE), ColorStack, Muslim Student Association

EXPERIENCE

• Microsoft

May 2024 - Aug 2024

Software Engineering Intern

Redmond, WA

- Improved test efficiency for asset service deployments by parallelizing synthetic transaction runners, reducing runtime by 85% and increasing scenario coverage through randomized execution order.
- Built and deployed Geneva Actions using the Azure REST API to automate secure cloud resource management, reducing reliance on manual Azure Portal access and minimizing elevated JIT role requests.
- Enhanced debugging and observability by categorizing runner failures, logging metrics, and surfacing correlation IDs, enabling faster root cause analysis during deployment validation.
- Simplified manual asset operations by redesigning Geneva Action inputs to streamline the user experience and enable self-serve tooling for partner teams.

• General Motors

May 2023 - Aug 2023

Software Development Intern

Atlanta, GA

- Increased office attendance by 19% in one week by developing a mobile app that gamified in-office engagement using rewards, incentives, and personalized push notifications.
- Built an interactive user experience using Angular, Ionic, Unity, and Vuforia, integrating AR features, real-time updates, and mobile notifications to boost user participation.
- Integrated with General Motors' Azure data infrastructure to deliver real-time insights and create personalized, data-driven employee profiles.
- Collaborated with cross-functional teams to gather business requirements and deliver a product aligned with General Motors' workplace culture and goals.

• Lavner Education

May 2022 - Aug 2022

Information Technology Intern

Washington, D.C.

- Worked with Tech Leads to debug and enhance front-end and back-end components of the company website, improving load times and resolving production-level issues.
- Implemented a multi-child registration feature that streamlined the enrollment process for siblings by automatically retaining shared fields such as emergency contact, address, and medical information.
- Delivered coding instruction to high school students, reinforcing core programming concepts and strengthening communication of technical material.

PROJECTS

• Modern Standard Arabic to Egyptian Arabic Text Style Transfer

Jan 2025 - Apr 2025

Tools: Python, Hugging Face Transformers, PyTorch, AraT5, AraGPT2, SacreBLEU, Google Colab, Jupyter Notebooks, Git



- Developed a text style transfer system to convert between Modern Standard Arabic (MSA) and Egyptian Arabic (EGY), addressing the challenges of diglossia and dialect variation in Arabic NLP.
- Fine-tuned pre-trained language models (AraGPT2 and AraT5) on parallel corpora (MADAR and Dial2MSA) for bidirectional translation (MSA ↔ EGY), leveraging Hugging Face Transformers and the Trainer API.

SKILLS

- **Languages:** Java, Python, C/C#/C++, JavaScript, TypeScript, Swift, SQL, HTML, CSS, Assembly
- **Technologies:** Angular, Figma, Ionic, JSON, Next.js, React, Tailwind CSS, Vuforia, .NET Framework, Node.js, REST APIs, MongoDB, MySQL, PostgreSQL, Amazon Web Services (AWS), Azure DevOps, Git, GitHub, Linux, Jupyter, PyTorch, Natural Language Processing (NLP), Unity