Mohamed Asmali

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EDUCATION

The Ohio State University — Columbus, OH
Bachelor of Science in Computer Science & Engineering, GPA: 3.52 — Expected May 2025
Honors: Buckeye's First Scholars, Second-Year Transformational Experience Program (STEP), Bradshaw Scholar
Relevant Coursework: Software Components, Software Development and Design, Discrete Structures, Data Structures and Algorithms, Fundamentals of Engineering I & II, Ethics for Engineering, Low-Level Programming and Computer Organization

TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript, React, HTML, CSS, x86-64 Assembly
Software and Tools: AWS, Microsoft Azure, Linux, Unix, Flask, Rest API, MongoDB, Git, Visual Studio Code

WORK EXPERIENCE

Publicis Sapient — Columbus, OH
Software Engineer Intern — June 2023 – August 2023
- Utilized a robust tech stack including React, CSS, JavaScript, HTML, Python, and AWS to develop and deploy an application on AWS Elastic Beanstalk, EC2, and S3, resulting in enhanced cloud data management and application performance
- Engineered Rest APIs and a Flask and MongoDB backend for a vendor promotion application designed for over 5,000 category specialists and vendors, encompassing 95,000 different promotions. This reduced the data input time by 50% and eliminated approximately 20% of human errors, enabling specialists to make quicker and more accurate decisions
- Significant contribution led to a 20% productivity boost, demonstrating a concrete impact on company operations

The Ohio State University — Columbus, OH
Engineering Lab Assistant — May 2022 – Present
- Optimized lab equipment and conducted repairs to support engineering experiments, utilizing CAD design and debugging acumen
- Constructed and arranged designs and projects for 3 engineering classes using MATLAB and Arduino, assisting 150+ students

TECHNICAL PROJECTS

Sudanese Tournament & Prayer Scheduler | *HTML, CSS, JavaScript, AWS*
- Designed a dynamic website via AWS S3, showcasing tournament schedules, serving 1,800+ users with event and dining details
- Leveraged an Athan API integration to auto-detect user locations, providing real-time prayer times and countdowns

RSS News Aggregator | *Java, HTML, CSS*
- Created an RSS News Aggregator, handling 500+ XML RSS feeds, and effectively filtering out ad links
- Enhanced user navigation by generating concise HTML index pages with categorized links to thousands of news items

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

ColorStack Chapter — Columbus, OH
Vice-President and Co-Founder — March 2023 – Present
- Led a diverse community of 110+ Black and Latinx Computer Science students, driving academic and professional initiatives
- Orchestrated high-impact projects, events, and corporate collaborations, fostering a dynamic, inclusive tech network

IBM Accelerate Program — New York, NY
Software Development Track — June 2023– July 2023
- Earned IBM Software Developer Badge, mastering Full Stack Development with an emphasis on app/web API security
- Refined skills in GitHub, Software Development Life Cycle, coding logic, design patterns, and cloud-native development

Blacks at Microsoft (BAM) Academy — Columbus, OH
Azure Student — June 2023 – July 2023
- Surpassed 500+ peers to join BAM Academy, earned Azure 900 Certification, and mastered Azure's Key Vault and RBAC
- Used Azure policies for governance, engaged in cybersecurity case studies, and facilitated valuable industry connections

Google x Management Leadership for Tomorrow (MLT) Tech Connect — Washington, DC
Career Preparation Fellow — February 2023–Present
- Accepted into a selective 18-month professional development program for high-achieving, diverse talent
- Completed business case studies and assignments to grow leadership and technical skills

National Society of Black Engineers (NSBE) — Columbus, OH
Mentor — November 2021 – Present
- Mentored 10 STEM students on NSBE Challenge projects like designing an airplane, boat, and equalizer
- Provided personalized mentorship, study techniques, college prep, and arranged professional workshops

ADDITIONAL INFORMATION

Organizations/Affiliations: Edlyft Intern Development Program, North and South Sudanese Association, InRoads
Interests: TED Talks, Soccer, Sci-Fi movies, Fantasy novels, AI; **Languages**: Arabic