

Mohamed Hosh

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EDUCATION

The Ohio State University

Columbus, OH

Bachelor of Science in Computer Science, Minor in Math, GPA: 3.6

Expected Dec 2025

Awards/Honors: Morrill Scholar, Second-Year Transformational Experience Program(STEP)

Relevant Coursework: Data Structures and Algorithms, Software Development and Design, Low-Level Programming and Computer Organization, Operating Systems, Fundamentals of Engineering, Web Applications, Advancing Programming Principles, Discrete Structures, Software Components, Product Management, Generative AI

Organization: NSBE, CodePath, ColorStack, Collaborative Software Development Club, SSA (Mentor)

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, React, Python, HTML, C++, Unit Testing, x86 Assembly, SQL, Ruby, Swift

Software: Eclipse, Android Studio, Visual Studio, Git, MySQL, Xcode, Docker

Frameworks: Microsoft Azure, Flask, Angular.js, Junit, Linux, Unix, Express.js, MongoDB, REST API, Spark

WORK EXPERIENCE

Machine Learning Research Intern

Columbus, OH

The Ohio State University Agriculture

Jan 2024 – Present

- Created crop yield prediction models in Python with scikit-learn and TensorFlow using regression on environmental and soil data
- Improved training pipelines for agricultural datasets by streamlining preprocessing and analysis in Pandas and NumPy, reducing processing time by 20%
- Developed AI image-to-text diagnostics in PyTorch using CNNs for drone imagery, automating health assessment

Software Engineering Research Intern

Columbus, OH

The Ohio State University

April 2023 – Aug 2023

- Worked with a six-member team to build a website and software, distributing 100,000+ meals to children
- Collected user feedback to enhance software usability and improve the user experience
- Designed a Project Manager interface with features like Overdue Review, Site Sequencing, and app integration

PROJECTS

E-commerce Web Application(JavaScript, Node.js, Express.js, React, MongoDB, HTML5)

- Led a 4-person team to design and implement back-end using Node.js and Express.js
- Instituted RESTful APIs for user authentication, product management, and order processing
- Utilized MongoDB for data storage, managing complex queries for efficient data retrieval
- Launched the app, supporting 200+ active users and processing 500+ transactions in the first month

Final Schedule Viewer(Java, Spring Boot, MongoDB, HTML, CSS, JavaScript)

- Created a full-stack web application for finals scheduling, used by 500+ students at The Ohio State University
- Extracted over 10,000 data entries using Python scripts from OSU's API
- Developed a RESTful backend and responsive frontend with Bootstrap increasing user engagement by 30% see osufinals.com for details

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow

Washington, DC

Career Preparation Fellow

Oct 2023 – Present

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders, such as Deloitte, LinkedIn, and Target

Minorities in Tech

Columbus, OH

President and Co-Founder

April 2024 – Present

- Led initiatives to support underrepresented students in STEM careers, enhancing preparation and job access
- Hosted bi-weekly Leetcode sessions for 50+ students, boosting interview readiness by 25%
- Organized talks with FAANG engineers showcasing software excellence to 100+ attendees
- Championed diversity in tech by promoting equitable STEM education and expanding opportunities

ADDITIONAL SKILLS AND INTERESTS

Artificial Intelligence, Data Management, Problem Solving, Software Engineering