

# Hassan Moustafa

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## EDUCATION

**B.S.E Computer Systems Engineering**  
Arizona State University, Tempe, AZ

**Expected December 2025**  
3.60 GPA

## TECHNICAL SKILLS

**Languages/Frameworks:** Java, Python, C++, C#, Swift, JavaScript, Node.js, AngularJS, HTML, CSS, SQL, Spark, MongoDB, PostgreSQL

**Developer Tools:** GitHub, Git, Bitbucket, Xcode, DataGrip, Postman, Firebase, Visual Studio Code, Android Studio, Jenkins

## PROFESSIONAL EXPERIENCE

**Software Engineer Intern, Dell Technologies**

May 2024 – August 2024

- Engineered an AI-driven virtual assistant using advanced natural language processing techniques and integrated cloud-based services, enhancing customer interactions and positioning the solution for future product development, accelerating time-to-market by 4 weeks.
- Designed and implemented a C# application with a custom chat interface, utilizing WPF for desktop UI and RESTful APIs for backend services, significantly improving the user experience.
- Developed a robust plugin system using C# and .NET, facilitating seamless integration between enterprise systems and ensuring operational reliability, with plans for future product release.
- Conducted comprehensive unit and integration testing with NUnit and Postman, validating component reliability and performance following best practices in software quality assurance.

**Software Engineer Intern, Dell Technologies**

May 2023 – August 2023

- Developed a high-performance C# API to enable real-time data retrieval and seamless communication between frontend and backend components for the Dell Optimizer project, improving system efficiency and scalability by 35%.
- Optimized data management processes using DataGrip and PostgreSQL, which streamlined complex data set handling and enhanced data-driven decision-making capabilities.
- Led rigorous security and quality assurance testing for 4 APIs, ensuring 100% robustness and production readiness, resulting in zero post-deployment issues.
- Facilitated Agile Scrum processes by utilizing tools like Jira, promoting effective team collaboration, and ensuring timely project delivery.

**Computer Support Specialist, ASU Herberger Institute for Design and the Arts**

June 2022 – November 2023

- Spearheaded comprehensive technical assistance for a community of 300+ university faculty, staff, and students, demonstrating exceptional problem-solving skills and a customer-centric approach.
- Installed and configured over 90 new systems, significantly enhancing the university's technology infrastructure, leading to a 25% increase in operational efficiency.

## ACADEMIC PROJECTS

**"Drone Nav"**

February 2023 – May 2023

- Designed and deployed a Python-based system that streamlined drone fleet management, increasing resource utilization by 30% and improved operational reliability.
- Implemented intelligent scheduling algorithms that dynamically adjusted drone availability, optimizing operations and enhancing the overall effectiveness of the drone photography service.

**Software Engineering Fellow, Headstarter AI**

August 2024 – September 2024

- Built and deployed 5 AI projects in 5 weeks, attracting over 500 active users, with active participation in hackathons.
- Collaborated with teams to leverage AI-driven solutions, leading to the development of innovative applications that were recognized for their potential to address real-world challenges.

## PROFESSIONAL INVOLVEMENT

**Fulton Liaison, National Society of Black Engineers (NSBE)**

January 2023 – May 2023

- As Fulton Liaison, I demonstrated project management, communication, and leadership skills by representing engineering students, bridging the organization and the engineering department, and connecting students with industry for networking and internships.

**Member, ColorStack**

February 2024 – Present