

Ahmad Musa

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Skills

Languages: **Expert:** [C/C++, Python, Java] **Proficient:** [C#, Javascript, Swift, HTML5, CSS3, WPF] **Tourist:** [Scala]

Frameworks: **Expert:** [AngularJS, IONIC, Node.js, PyTorch, Keras] **Proficient:** [PHP, Lumen, jQuery, Web 2.0]

Systems: Android (4 yrs.), Unix (3 yrs.), iOS (1 yr.)

Others: Git, JIRA, SQL Server, WebEx, GoToMeeting

Industry Experience

Software Engineer Intern

May 2019 – Aug 2019

4D Technology Corporation | Tucson, Arizona

- Collaborated closely with the Software Engineering Manager to conceptualize, design, and implement numerical analysis modules using C#.
- Led the effort to port approximately 20 modules from WPF to C#, ensuring compatibility and functionality across platforms.

Software Engineer

Nov 2017 – June 2018

Enosis Solutions | Dhaka, Bangladesh

- Spearheaded the development of iOS applications for U.S.-based clients, successfully publishing them in the Apple Store.
- Utilized the Ionic framework for cross-platform mobile app development, focusing on bug fixes to enhance robustness and user experience.

Academic Experience

Summer Instructor

May 2020 – Aug 2020

University of Arizona | Tucson, Arizona

- Taught a summer class of 45+ undergraduate students in Systems Programming and UNIX.
- Prepared comprehensive lectures covering key concepts and practical applications.
- Managed a team of teaching assistants to ensure smooth operation of the course.

Education

University of Arizona | M.S. in Computer Science

Graduating 05/2024

Khulna University of Engineering and Technology | B.S. in Computer Science and Engineering

Graduated 03/2017

Projects

Analysis of NFC digital wallet apps

Jan 2022 – Dec 2023

- Conducted a comprehensive investigation into the adherence of wallet apps to EMV standards.
- Employed advanced techniques such as Reverse Engineering, Symbolic Analysis, and both static and dynamic analysis to scrutinize the apps thoroughly.

Awards

- **Champion** at *Google CodeJam* Kickstart Competition, UArizona. Awarded 2018
- *ACM ICPC* Dhaka Regional (42nd out of 123 teams) Awarded 2016