Anika Tahsin Chowdhury Simi

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SUMMARY

I've refined my expertise in Algorithms and Data Structures, earning recognition through participation in numerous national Programming Contests. In my professional journey, I delved into iOS development, contributing to Samsung's iOS applications like Samsung Galaxy Wearable and SmartThings. While I primarily specialized in front-end development, I possess a strong desire to explore backend intricacies. My passion lies in embracing new technologies and devising innovative solutions for complex problems. My skills encompass Swift, Software Development Life Cycle, Git, Agile Methodologies, C++, Algorithm and Data Structure Design, as well as various Design Patterns and Principles such as MVVM, SOLID, MVC, and more.

TECHNOLOGIES AND LANGUAGES

- **Programming Languages:** Swift, C/C++, Familiar with Java, JavaScript, HTML, CSS(Working knowledge).
- **Technology:** iOS Application Development, Xcode, Git, Agile Scrum.
- **Additional skills:** Problem Solving, Algorithms and Data Structures.

WORK EXPERIENCE

Research Assistant	University College Dublin	Aug 2023 — Present

- Contributing to develop a web-application, which will be the protfolio of HOLOS-IE(a digital Platform which will offer a critical opportunity for Ireland to address climate change challenges and environmental degradation, facing the world today, associated with agricultural systems, agri-food industries, and other land uses)

Software Engineer	Samsung R&D Institute Bangladesh	Apr 2019 — Aug 2022

- Contributed to the development and improvement of the Samsung SmartThings Scan Nearby feature, resulting in increased user satisfaction and onboarding efficiency.
- Developed Backend Driven UI with RESTful API integration and implemented new features of UI Screens for the Samsung Galaxy Wearable, which includes the ability to connect to mobile devices and facilitate data backup and restoration using Samsung Account.
- Adhered to Test-Driven Development practices to increase code stablity and making less bug .
- Improved and fixed bugs in the SmartThings Help Card, enhancing the user experience.
- Successfully applied refactoring techniques to significantly reduce the Cyclomatic and Cognitive Complexity of the SmartThings codebase, resulting in improved code quality and maintainability.
- Demonstrated strong independent problem-solving skills by developing UI and Utility modules and writing Unit tests for the Samsung Galaxy Wearable and SmartThings projects.

PROJECTS

- **iBooks:** iBooks is Developed using Swift in Xcode. The app is to showcase of Backend-Driven UI implementation, used mock-server to fetch book list and details, with handling exception occurences..
- **Noughts and Crosses:** Designed and developed an Android Noughts and Crosses game using Java and Android SDK. Implemented a fixed-depth minimax artificial intelligence algorithm to enable single-player mode, allowing players to compete against a computer opponent..

EDUCATION

Leading University, Sylhet, Bangladesh	Oct 2016 — Mar 2019
Bachelor of Science - Computer Science and Engineering	
Sylhet International University	Apr 2014 — Oct 2016
Bachelor of Science - Computer Science and Engineering	

AWARDS

328th place at Google Code Jam to I/O for Women, Google	Aug 2018
10th Place at DIU National Girls Programming Contest, Daffodil International University	Aug 2017
9th - NSU IUGPC 2018, North South University	Apr 2018
23rd LU National ICT Fest Programming Contest, Leading University	Dec 2018