MD. AMIT HASAN AROVI

Software Engineer, Nilavo Technologies Ltd., Bangladesh

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Professional Statement

I am a Software Engineer at Nilavo Technologies Ltd., Bangladesh. I completed my Bachelor of Science in Computer Science & Engineering at the Islamic University of Technology in 2015. I am a self-motivated and detail-oriented individual with in-depth knowledge of languages and development tools. I am an avid problem solver with critical thinking, analytical and exceptional interpersonal communication skills. A multitasking result-oriented individual having 5 years' experience in the IT industry with the ability to do work effectively & efficiently as a creative team player ensuring great communication & development skill. I am a very quick and curious learner and an individual with a keen interest in new technologies and research. As a Software Engineer, I work on the back-end of web applications, testing and coding as well as debugging programs and troubleshooting and doing R&D on available technologies for implementing new features and solving bugs. I spend my free time learning, researching about various topics in Computer Science which I find fascinating.

Education

2011 - 2015   **BSc Computer Science and Engineering**, Islamic University of Technology, Bangladesh
Specialization: Human-Computer Interaction
Thesis Topic: Speech Based Interaction for the Visually Impaired
Supervisor: Hasan Mahmud

Selected Courses

Undergraduate

Computer Fundamentals and Programming; Computer Programming; Object Oriented Programming; Visual Programming; Data Structures; Algorithms; DBMS; RDBMS Programming; Engineering Drawing; Geometry and Differential Calculus; Discrete Mathematics; Integral Calculus and Differential Equations; Linear Algebra; Statistical and Mathematical Analysis; Numerical Analysis; Probability & Stochastic Processes; Operating Systems; Microprocessors and Assembly Language; Systems Analysis and Design; Software Engineering & OOD; Graph Theory; Machine Learning; Unix Programming; Software Development; Artificial Intelligence & Expert Systems; Theory of Computing; Digital Image Processing; Human Computer Interaction; Pattern Recognition.

Programming / Technical Skills

C#, ASP.NET, VB.NET, SQL, React Native, Flutter, Python, Java, Android, C/C++, JavaScript, HTML/CSS, IDEs and Text editors, Command line tools

Industrial Experience

Software Engineer

January 2019 – Present   Nilavo Technologies Ltd., Bangladesh

Responsibilities: Developing web applications using ASP.NET, C#; debugging and bug fixing; collaborating using git and github; communicating with clients and requirement analysis.

Junior Software Engineer

December 2015 – December 2018   Nilavo Technologies Ltd., Bangladesh

Software Engineer Intern

November 2014 – December 2014   XeonBD, Bangladesh

Responsibilities: Developing Android application.

Selected Awards

2015   Winner of Imagine Cup 2015 Bangladesh World Citizenship Competition and World Semi-finalists with project *Eye Pointer* (https://www.youtube.com/watch?v=ZZeTRWBsB24)

Publications

Conference Papers (refereed)

Khan, N**., Arovi**, M. A. H., Mahmud, H., Hasan, M. K., & Rubaiyeat, H. A. (2015, December). Speech based text correction tool for the visually impaired. In *2015 18th International Conference on Computer and Information Technology (ICCIT)* (pp. 150-155). IEEE.

Projects

Professional projects

Anvil EQ™(https://anvileq.com/Anvil/Default.aspx)– Anvil EQ™ is an on-demand equity administration application specifically designed for private companies, their legal advisors, accountants and investors. The basic application facilitates the seamless management of stock and option schedules. Additional standard and custom modules may be added for more complex tasks including stock option expensing (ASC Topic 718) for companies and mark-to-market valuations for funds.This project is being developed using **C#, ASP.NET, MSSQL**.

Data Collector –   An iOS and Android based application to collect Image, Video and sensor data for ML based crack and defect detection approach for road condition evaluation. Developed using **Dart, Flutter**. (https://drive.google.com/file/d/1LcZfoKYR2iPHpIYYaPTuKtd34FGA6SuQ/view?usp=sharing)

Academic Projects

Eye Pointer – A software for the handicapped with non-working hands to enable them to use computers. Developed using *C#, .NET Framework, Emgu CV, Visual Studio. (***https://www.youtube.com/watch?v=ZZeTRWBsB24***)*

Pointer Security – A mobile phone application for android and windows to ensure security of computers. Allows users to stream a webcam and monitor the screen of the computer, locking or shutting down the computer. Developed using android/windows Phone 8.1.

Speech based interaction app for the visually impaired – Using an android phone as a remote, users can use text editors on computers, listen to music, read E-books and search files. Developed for thesis implementation using **android, Java Swing, Google Speech**.

Railway Ticket Management System – Web application for processing Railway tickets. Developed using **C#, ASP.NET, MSSQL.**

General Knowledge Enhancer – An Android smartphone application that allows students to develop and enhance their general knowledge about Science, Math and International affairs.