

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. In 2015, I graduated from the Islamic University of Technology with a Bachelor of Science in Computer Science and Engineering. I am a self-motivated and detail-oriented individual with an extensive understanding of programming languages and tools. I am an avid problem solver with strong analytical and critical thinking skills. I enjoy working both independently and in groups. I am a quick and inquisitive learner who is fascinated by new technologies and scientific exploration. My responsibilities as a Software Engineer involve writing and testing both the front-end and back-end of web applications, as well as debugging and troubleshooting programs and conducting research and development on available technologies for incorporating new features and fixing issues. In my free time, I enjoy learning about and investigating various aspects of computer science that 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* ([Eye Pointer](#))

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 (ICIT)* (pp. 150-155). IEEE.

Projects

Professional projects

Anvil EQ™([Anvil EQ](#))– 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**. ([Data Collector](#))

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**. ([Eye Pointer](#))

Pointer Security – A mobile phone application for android and windows to ensure the 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 as a part of the undergraduate thesis and implemented 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.