

Farhan Rahman

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FarhanMRahman.github.io | github.com/FarhanMRahman | linkedin.com/in/FarhanMRahman

Education

Personal Website: FarhanMRahman.github.io

University of Massachusetts Amherst

Bachelor of Science in Computer Science and Mathematics

Cumulative GPA: 3.84

Dean's List Fall 2016, Spring 2017, Spring 2018; Chancellor's Award

Expected Graduation Date: May 2020

Relevant Courses: Object Oriented Programming with Java, Data Structures with Java, Intro to UNIX, Calculus I & II
Programming Methodology (C++), Computer Systems Principles, Theory of Computation,
Reasoning about Uncertainty, Programming in C

Work Experience

Microsoft (Software Engineering Intern)

June 2018 – August 2018

Boston Garage, Cambridge MA

C#, UWP, Redux, XAML

- Worked with the Sticky Notes team to bring it to the HoloLens and mixed reality holographic devices
- Developed Voice Recognition and Interaction in the existing UWP Sticky Notes application for HoloLens
- Used Windows Speech Recognition API to listen for voice command and dispatch actions
- Implemented Cortana skills and Voice Command Definition (VCD) files to use Cortana functionality to get voice input
- Worked with Optical Character Recognition (OCR) to implement Image-To-Text in Sticky Notes
- Fixed minor bugs and wrote unit tests using NCrunch testing tool in Visual Studio
- Used Redux paradigm to manage codebase and Agile to manage team workflow

Projects

github.com/FarhanMRahman

Football Maniac (Android)

Play Store: goo.gl/8EdK6B

github.com/FarhanMRahman/FootballManiac

- Developed a RESTful Android app that displays real time soccer scores, schedules and leaderboards
- Used REST API to parse JSON data from a free web API using Java
- Implemented ArrayAdapter to recycle data in ListView to speed up and a Service for background music
- Designed LinearLayout and RelativeLayout for the UI of the app using XML syntax
- Used SharedPreferences and HashMap for storing user's favorite teams and efficient lookup
- User can customize their preference of favorite teams using different intents for displaying results, position on leaderboards and next schedules)

TextWizard (Java)

github.com/FarhanMRahman/TextWizard

- Text editor and word analyzer; implemented it using Java and the Swing library
- Implemented BorderLayout for the frame and GridBagLayout for the analyzer panel
- Analyzer panel has some features like total word count, average word length, word length percentages etc. allowing editor panel to edit and save any text file

CalcVerter (Java)

github.com/FarhanMRahman/CalcVerter

- Scientific calculator and unit converter; implemented it using Java and the Swing library
- Calculator panel has basic scientific calculation features and the converter converts from one unit to another
- Designed BorderLayout for the main panel, GridLayout for the calculator panel, GridBagLayout for the converter panel and FlowLayout for the toolbar
- Implemented Key and MouseKey listeners so user can use both mouse and keyboard for input

Technical Skills

Languages: Java, C#, C, C++

Others: Android, HTML5, CSS3, SQL, XML, XAML

Libraries & APIs: Windows Speech Recognition, Cortana, Optical Character Recognition (OCR), Google Firebase, Swing

IDEs & Tools: Visual Studio, Android Studio, NCrunch Unit Testing, Microsoft HoloLens and MR Headsets, Eclipse