

Mandar Mathure

450 Westcott Street, Apt 1, Syracuse, NY 13210
mmathure@syr.edu; +1-315-949-8682;
mandarm2593@github.io

EDUCATION

Syracuse University Graduate Student

MS Computer Engineering, August 2016 - May 2018

GPA: 3.83/4

Advanced Data Structures and Algorithms, Android Programming, Object Oriented Design, Database Management Systems, Human Computer Interaction, Advanced Computer Architecture, VLSI Design Methods, Digital Machine Design, VLSI Testing and Verification

University of Mumbai, Pillai College of Engineering

GPA 3.75/4

B.E. in Electronics Engineering, 2011-2015

TECHNICAL SKILLS

- C++, C, Java, SQL, HTML, Android Programming, CSS, JavaScript, PHP
- VHDL, Verilog, System Hardware Architecture
- Design for Testability, Design Verification, TetraMAX
- Synopsys Design Compiler, Modelsim, Cadence tools (Virtuoso Schematic and Layout editor)

WORK EXPERIENCE

Android Developer at DynaGarde

April 2017 – Present

- ✓ Developing an android application that tracks the location of a Subject Protection Device (SPD) and allows users to use some pre-defined geofences in-order to monitor the SPD's location.
- ✓ Working mainly on developing the User Interface for the application, its user authentication, data storage capabilities and programming the hardware to interface with the android application.

PROJECTS

➤ Ride On! – A Carpooling Android Application

February 2017 – May 2017

- ✓ An android application that connects users travelling from the same location to a common destination.
- ✓ The application works on real time data stored in Firebase Database and other user centric information stored in Firebase Storage supported by Google Cloud.

➤ Dependency Based Code Publisher using C++ and HTML

March 2017 – April 2017

- ✓ Developed a repository that manages and publishes source code files as web pages with embedded child links. Each link refers to a code file that the displayed file depends on.
- ✓ The publisher generates an HTML file for each C++ source file.
- ✓ The inputs to the publisher are C++ source code files and its outputs are HTML code.

➤ Built a Type-based Dependency Analyzer using C++

Feb 2017 – March 2017

- ✓ The analyzer extracts lexical content from source files and builds a Type Table and an Abstract Syntax Tree.
- ✓ Dependency analysis is performed on a set of files and the results are written, in XML format, to a specified file.

➤ Implemented a Key/Value Store Database using C++

Jan 2017 – Feb 2017

- ✓ Created a key/value store database using C++ STL containers and an Xml document class which helped to read, write and persist database contents in a Xml file.
- ✓ The project supported various functionalities like adding key/value pairs, editing text metadata, replacing existing values instance with a new instance and, addition and deletion of relationship with other key/value pairs.
- ✓ Implemented a query mechanism that supported various queries for the contents of the database.