

# SHAGUN PRAKASH HEGDE

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## EDUCATION

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**Syracuse University, Syracuse**  
MS in Computer Engineering

*Expected May 2018*  
GPA: 3.22/4

**Jawaharlal Nehru Technological University, Hyderabad**  
B.Tech in Electronics and Instrumentation

*2011 - 2015*  
First Class with Distinction

## TECHNICAL SKILLS

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<b>Languages</b>	Python, C++, C#, R, MATLAB, Swift, SQL
<b>Platforms &amp; Frameworks</b>	Git, TensorFlow, Keras, Weka, XCode
<b>Web Technologies</b>	HTML, CSS, JavaScript

## PROJECTS

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**REMOTE CODE PUBLISHER** C++, HTML, CSS, JavaScript, NoSQL

- Built a program to publish code online and find dependencies among files uploaded into the same repository.
- Designed a NoSQL database capable of timed data persistence, a type based analyzer capable of finding dependencies and analyzing both C# and C++ code, as a part of this program.
- Implemented this program with multiple local clients (built using managed C++/CLI), communicating with a server over a communication channel.

**TEST HARNESS** C#, WCF, WPF

- Built an implementation for accessing a remote Test Harness from multiple concurrent clients, using C#.
- Used Windows Communication Foundation for message passing between processes and the Windows Presentation Foundation was used for the UI.
- Wrote an Operational Concept Document, detailing the activities and various partitions of this system.

**KOBE BRYANT SHOT SELECTION** Python, R

- Performed visualization and applied predictors - Logistic Regression, Support Vector Model and Nearest Neighbors, on the Kobe Bryant Shots dataset, provided by Kaggle.
- Used R to build a Shiny Application for interactive visualization of the data.

**CONTINUOUS PHONE USER AUTHENTICATION** Python, MATLAB, TensorFlow

- Constructed a system for continuous user authentication using data from phone sensors-Accelerometer and TouchScreen.
- Carried out data cleaning, distribution tests, feature selection, feature normalization on the collected dataset and classification.

## WORK EXPERIENCE

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**DAKSHA VENTURES, Bengaluru, India** August 2015 - April 2016

- Worked with architects on multiple home automation projects, managing and interpreting customer requirements.
- Took charge of two home automation projects, co-ordinating the efforts of the entire team of engineers and electrical technicians.

## AWARDS AND LEADERSHIP POSITIONS

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- **Grad Award(2016)**: Awarded a 30% tuition fee waiver for both years of graduate studies at Syracuse University.
- **EECS Representative(2016-2017)**: Headed the EECS branch of Graduate Student Organisation.
- **Editor, KMitra(2013-2015)**: Co-founded and edited Keshav Memorial Institute's first E-Magazine.
- **Best Game Design (2011)**: Awarded first place for a game designed during a university wide hackathon.