

## **Ramnarayanan Vannia Samy**

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### **EDUCATION**

**University of Illinois at Chicago**  
**M.S., Computer Science**

**Expected May 2019**  
(GPA: 3.95/4.0)

Video Game design and development, Mobile App Development, and Algorithm Design and Analysis, Data Mining and Text Mining, Artificial Intelligence, Data visualization, and Augmented Reality/Virtual Reality.

**College of Engineering, Guindy, Anna University**  
**B.E Computer Science and Engineering**

**2017**  
(CGPA : 8.49/10.0)

### **SKILLS**

Web Technologies: HTML, CSS, JavaScript.

Operating systems: Windows, Mac OS, Unix.

Programming Languages: C, C++, C#, Java, Python, IBM Watson.

Interests: AR/VR and AI (Computer Vision).

### **TECHNICAL EXPERIENCE**

#### **Projects**

##### **1. Shop Smart (Unity3D, Python, NodeJS and Vuforia)**

**Sep-Dec 2018**

End to end grocery shopping solution developed as an Android application. Provides personalized recommendations using collaborative filtering and location based recommendations. My role includes API development and augmented reality integration.

##### **2. AR Physics (Unity3D and ARCore)**

**Sep-Dec 2018**

(Augmented Reality) ARPhysics is an android application developed in Unity using ARCore. It has around 8 levels utilizing different features of AR in phones.

##### **3. Developed Virtual Reality Halloween game (Unity, VRTK and C#)**

**Oct 2018**

Incorporated various jump scares to give users a surreal experience while playing the interactive horror game in Virtual Reality.

##### **4. Developed Augmented Reality android application (Unity, Vuforia and C#)**

**Sep 2018**

Made an application to encourage users to eat healthy using augmented reality.

Added models on detecting objects using Computer Vision. Coded proximity of objects to have outcomes.

##### **5. Data Science for Geopolitical Estimation of Cancer Rates (QGIS, Javascript, HTML, CSS)**

**May-Aug 2018**

Developed a geographic information system-based method for estimating cancer rates in non-census defined geographical areas. Preprocessed and mapped the data to wards to visualize a data driven story.

##### **6. UIC Admission Chatbot NLP (IBM Watson and Node JS)**

**Feb-May 2018**

Scraped data from websites, wrote node js server code to intermediate information flow and integrated it with IBM Watson Conversation.

Designed dialogue for IBM Watson conversation service, used Tone Analyzer for understanding emotions and Discovery service for obtaining information. Fixed problems with incorrect data being sent.

##### **7. Cyber Escape (Unity game engine- C# and Blender)**

**Aug-Nov 2017**

Developed a 3D PC game in **Electronic Visualization Laboratory in UIC under Professor G.Elisabeta Marai**:

Designed character models, structured the game using formal elements, implemented AI, physics, sounds and

shaders. Prototyped and tested the game. Worked with a multi-disciplinary team and served as project manager.

### **WORK EXPERIENCE**

#### **Application developer in MAD Lab UIC (C++ and Python)**

**Jan 2018-Present**

Developing Arduino code using C++ and develop applications for medical research (using Python).

Worked on a scientific game using Unity for android phones to help in leg movement of elderly patients.

#### **Research and Development Intern UIC (Javascript, Python and QGIS)**

**May 2018-Dec 2018**

Worked in the field on Data Science to analyze and visualize the data. Worked on Precision E-Radiomics for Dynamic Big Head & Neck Cancer Data.