Ramnarayanan Vannia Samy

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EDUCATION

University of Illinois at Chicago — **Expected May 2019**
M.S., Computer Science — (GPA: 3.95/4.0)
Video Game design and development, Mobile App Development, Algorithm Design and Analysis, Data Mining and Text Mining, Artificial Intelligence, Data Visualization, Applied AI and Augmented Reality/Virtual Reality.

College of Engineering, Guindy, Anna University — **2017**
B.E Computer Science and Engineering — (CGPA : 8.49/10.0)

SKILLS

Web Technologies: HTML, CSS, d3.js, three.js, React JS, Bootstrap.
Programming Languages: C, C++, C#, Java, Python, JS, IBM Watson.
Operating systems: Windows, Mac OX, Unix.
Interests: Web dev, Data Science and AI.

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*

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

TECHNICAL EXPERIENCE

Projects

AI Pac Man Game (Python) — *Dec 2018*

- Self-playing Pac Man game - trained a CNN on 2 hours of training data. MobilNet for training neural network.

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.

AR Physics (Unity3D, ARCore, C# and Blender) — *Sep-Dec 2018*

- ARPhysics- Augmented Reality android application (uses ARCore). 8 levels utilizing features of AR in phones.

Data Science for Geopolitical Estimation of Cancer Rates (QGIS, Javascript, HTML, CSS) — *May-Aug 2018*

- Website for oncologists to obtain Geographic information system-based method for estimating cancer rates.
- Mapped the data to wards to visualize a data driven story. Used MVC architecture to make code extendable.

Various Android Studio Projects (Android Studio - Java) — *Aug-Nov 2017*

- Simulating a 4 digit number guessing game using two players (Java threads, adapters and handlers)
- Parsed and display data (in JSON format) from a website according to the user input (AIDL and Services)

UIC Admissions Chatbot (IBM Watson, NLP, Python and Node JS) — *Aug-Nov 2017*

- Scraped data from websites, node js server code to intermediate information flow and integrated with Watson.
- Designed dialogue for Watson conversation service, Tone Analyzer for understanding emotions and Discovery service for obtaining information. Fixed problems with incorrect data being sent.

Animapp (HTML, CSS, php and Java Script) — *Mar-Oct 2016*

- Worked with UX designer to articulate the thoughts for website that veterinary doctors use to keep track of the pets they treat under quick deadlines. Worked in agile environment using HTML5, CSS3 and bootstrap.

INTERESTS AND CO-CURRICULAR :

Video Editing(Commercial ad videos), Acting, Chess, football and badminton. Psychology (Therapist in sevencupsoftea.com)