

# Abishek Sethuraman

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## Education

**University of Florida - Gainesville, FL (USA)**

[August 2016 – May 2018]

*Master of Science in Computer Science*     **3.73 GPA**

**University of Mumbai - Mumbai (India)**

[May 2006 – June 2010]

*Bachelor of Engineering in Electronics*

## Technical Skills

**Languages:** Java, C#, JavaScript, HTML, PHP, Python

**Web:** Node.js, JQuery, React, Express.js, Laravel

**Machine Learning:** Numpy, Scikit-learn, SOMPY

**Database:** MySQL

**Game Development:** Unity3D, Ulink

## Work Experience

**University of Florida - Graduate Teaching Assistant**

[January 2018 – May 2018]

Teaching Assistant for COP5556 Program Language Principles (Dr. Beverly Sanders).

**KARMIC PIXEL- Associate Software Programmer**

[February 2015 – July 2016]

*Game Networking Solution: (C#)*

- Developed a Realtime Multiplayer Networking solution over UDP for Android OS to support games developed in Unity3D.

*Realtime Price & Product Comparison Platform (PHP-Laravel, jQuery, MySQL):*

- Developed a Web Application aggregating product information from various e-commerce portals via APIs and Web Crawling.
- It was accessible on a common portal, powered by a partial semantic search capability.

**THCNOW- Senior Web Application Developer**

[December 2012 – January 2015]

*E-commerce Website Development (PHP, JavaScript, jQuery, HTML):*

- Full stack development for Web based applications using MVC Frameworks and Content Management Systems.
- Devised various features such as Stock Management, Vendor Management and Shopping Statistics for these websites.

*Customer Relationship Management(CRM) (PHP, JavaScript, jQuery, HTML):*

- Designed the database architecture and developed modules like Contact Management, Invoicing and Order Management, and Document Management for an automotive commerce agent.

**HAPPEMILES - Head Of Operations - Content & Training**

[May 2011 - November 2012]

- Recruited, trained, and managed teams of Content Developers, Trainers, Admin and Support Staff.
- Developed employee reporting and performance rating system using Web Technologies.
- Developed new courses and content, and conducted training sessions for college students in fundamentals of C, HTML, PHP and JavaScript.

## Academic Projects

*Internet of Things Platform in Xinu (C, Node.js, Linux, Xinu OS)*

[November 2016-December 2016]

- Designed and implemented a device driver, using XINU OS, on BeagleBone Black for the Internet of Things CEB model.
- Interfaced with an analog and digital sensor, to feed sensor readings to the Cloud using the CEB Architecture.
- Extended communication between sensors and actuators via UDP to facilitate interaction between “things”.

*Compiler (Java)*

[November 2017-December 2017]

- Implemented a Compiler for a language designed to make simple manipulations to images.
- Implemented Scanner, Parser, Type-Checker, and Code Generator (Java Byte Code).

*Urban Gardener (Node.js, Bootstrap, Oracle)*

[March 2017-April 2017]

- Implemented a web application using Node.js and Express framework that helps aggregate urban tree planting data.
- Designed and Implemented an Oracle Database capable of handling a million tuples for the web application.

*Image Segmentation Using Clustering Algorithms (Python, Scikit-learn, Numpy, SOMPY)*

[March 2018-April 2018]

- Implemented Image Segmentation on RGB and Hyperspectral Images using K-means, Fuzzy c-means and Self-Organizing Maps.