**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.js, Express.js, Laravel

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

**Database**: MySQL, MSSQL

**Cloud**: AWS EC2, AWS S3, AWS Elasticsearch Service

**Others**: Elasticsearch, Git, Docker

**Work Experience**

**TradePMR – Software Engineer** **[June 2018 – Current]**

* Implemented full text search using Elasticsearch and AWS Elasticsearch service.
* Developing new features and fixing bugs for existing product using C# and WPF.
* Documentation of the microservices architecture, business logic and implementation details of existing product.
* Early stages of developing a web-based application in Node.js and TypeScript.

**University of Florida- Graduate Teaching Assistant** **[January 2018 – May 2018]**

* Teaching Assistant for COP5556 Program Language Principles (Dr. Beverly Sanders).
* Help students build a Compiler incrementally (i.e. Scanner, Parser, Abstract Syntax Tree, Type-Checker, and Code Generation).
* Prepare test cases and grade the assignments.

**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.

**HAPPEMILES - Head Of Operations - Content & Training [May 2011 - November 2012]**

**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.