

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.