Periyanayaki Arumugam

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**Carrier Objective**:

A Post Graduate student with experience in software development programing is looking for a software engineer position. Willingness and ability to grasp concepts quickly and expand the present knowledge base with ease.

# Professional Summary:

* 4+ years of extensive experience in software programming
* Expertise in C, Embedded C,C++,Python and SQL programming Languages
* Hands on experience in Distributed File Systems (DFS), Map Reduce techniques like Hive, Apache Spark and Machine Learning algorithms
* Experience with deploying applications in Cloud environment like AWS Microsoft Azure ML studio
* Expert in handling libraries Numpy, Pandas, Scikit-Learn
* Worked with Shell Scripts on Linux environment
* Hands on experience in Cybersecurity techniques using tools VMware, Wireshark, Virtual Box, Security onion
* Expert in microcontrollers/microprocessors such as 8051, Arduino, ARM, PIC.
* Experience of software development under real-time and integration of software and hardware platform
* Proficient with Microsoft Office Suite (Word, Power Point and Excel).
* Engaged with peers to review solutions and help ensure team delivers readable, maintainable, and extensible solutions
* Participated in the full software development life cycle including design, implementation, testing, maintenance, and support

# EDUCATION

## M.S. in Electrical and Computer Engineering. GPA – 3.71 2019 –Pursuing

## [Old Dominion University,](https://www.cs.odu.edu/) USA.

## M.E. in Embedded System Technologies. 2010 - 2012

## Anna University, India.

## B.E. in Electronics and Communication Engineering. 2004 – 2007

## Anna University, India.

**Technical Skills:**

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| --- | --- |
| **Programming Languages**  | Assembly languages, C, C++, Python, SQL,Shell Scripting |
| **Operating Systems** | Windows, Ubuntu, Linux, Unix |
| **Databases** | Oracle, SQL Server, SQLite, MongoDB, Amazon Redshift |
| **Libraries and Frameworks** | Numpy, Pandas, Keras, Scikit-Learn, Keras, Tensor Flow, MLlib |
| **Big data & Machine learning** | Hadoop, Hive, Apache Spark, Microsoft Azure ML, Tableau  |
| **Simulation Tools** | NI LabVIEW, Arduino, Keil, IAR Embedded Workbench, Matlab, Cadence, Pspice, Xilinx , GNU debugger |
| **Tools** | Anaconda 3.0, Jupiter Note, GitHub, Visual Studio, Microsoft office. |
| **Communications and Protocols** | TCP/IP, UDP, Ethernet, Wi-Fi, CAN, SNMP, RS 232, SPI,USB,UART |
| **Networking tools** | VMware Horizon, Virtual Box, Wireshark, Security Onion |
| **Microprocessor and Microcontrollers** | 8051,ARM,PIC, MSP430f2370, TRF7960 |

**Experience**

**Log fuse Technologies Pvt limited, India**

**Role: Graduate Intern** **Dec 2014 – May 2015**

**Responsibilities:**

* Handled the Automation Projects in connectivity domain.
* Built end to end qualification automation processes that increase product quality. Builds robust and scalable automation frameworks to support product development.
* These frameworks shall be developed for handset testing, web testing, application testing, and server testing.
* Analyses, designs, and develops automation frameworks suitable for applications.
* Gained Experience working with servers, applications and databases with SQL
* Experience with Arduino and IoT devices

**Environment:** SQL, Python, GitHub, Arduino, Oracle Server.

**Sree Sastha Institute of Engineering and Technology, India.**

**Role: Assistant Professor Jun 2012 –May 2013**

**Responsibilities:**

* Supported in Students project
* Collaborated with students to fully understand requirements and supported them to get the proposed project outcome
* Gained Experience in Cryptographic algorithms, USB, ZigBee Protocols
* Proof reading on Project reports, Journals and conference Papers
* Assist Digital Signal processor laboratory
* Handled courses like Digital signal Processing,Advance Digital System Design

**Environment**: C, Assembly languages, Cryptographic algorithms, USB, ZigBee Protocols.

**Prince Sri Venkateswara Padmavathy Engineering College, India.**

**Role: Lab Instructor May 2009 – Apr 2010**

**Responsibilities:**

* Wrote programs for computer and Data Structure Laboratory
* Assist in Microcontroller and Interfacing Laboratory experiments
* Constructed experiments and wrote programs for coursework.
* Prepared manual for lab experiments.
* Assist students in Laboratory.
* Conducted Laboratory exams

**Environment**: C, Assembly languages, Data Structure, 8051 Microcontroller.

**Mani India Technologies Private Ltd, India.**

**Role: System Analyst June 2007 – April 2009**

**Responsibilities:**

* Worked on Embedded C,C++,SQL and Visual studio programing
* Gained Experience in Linux and Shell script
* Involved in Schematic , PCB design,LCD
* and Keyboard interfacing techniques
* Application Flow format designing and coding
* Utilized GNU Debugger to check the system programs.
* Worked on MSP430f2370, TRF7960, ARM processor in different projects
* Implemented RS-232, RS-485, SPI, I2C, USB, UART and communication protocol libraries to communicate microcontrollers and peripherals.
* Performed peer review of code, software documents, requirements and test cases developed by the team.

**Environment:** Embedded C**,** C++, SQL, Linux, Shell scripting, visual studio, SPI, UART.