

**SINDHU PARAMANANTHAN**  
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**SUMMARY**

- Innovative software developer with around 4 years of experience in the full software development lifecycle and working as a team.
- Currently working as a software developer by analyzing the requirements and creating the optimized solutions.
- Worked on embedded systems at healthcare industry, which involves ability to analyze code, develop responsive and cost effective solutions.
- As a researcher developed the problem solving skills and ability to quickly grasp complex systems and identify opportunities for improvements and resolution of critical issues.

**EXPERIENCE**

**Software Developer II – MedData, Woodlands, TX**

**May 2018 – Present**

- Developing a web application with Aurelia and Typescript as front-end.
- Experience in creating Web API with C# that communicates with the database.
- Experience in writing Stored Procedure, Functions, Views and maintaining multiple databases at multi-level.
- Design normalized database tables with minimum reliance from DBA
- Working under Agile methodologies with TFS and Jira.
- Performed Quality Assurance tasks to determine the application performance and outcome.
- Debug and increase the performance of the existing code and troubleshoot for issues.
- Configure, maintain and troubleshoot the software tool to produce optimized result.

**Software Developer – LMS Research and Development, Houston, TX**

**February 2017 – May 2018**

- Developed a Business Management Application using php and MySQL, which performs CRUD functions, schedules appointment, sends reminder email, and maintains time sheets of the employee and document management.
- Developing a CRM for the multi service company in full stack web development using .NET (MVC), HTML, CSS, JavaScript.
- Working with REST API through sending and retrieving JSON values asynchronously using AJAX.
- Experience in JQuery library while working with event handlers and AJAX.
- Communicating with the API using .Net framework and C# as the programming language in MVC architecture.
- Experience in creating a Single Page Application using AngularJS framework.
- Solid understanding of responsive frameworks including Twitter Bootstrap.
- Experience in working with Git Repositories using bitbucket.

**Software Engineer – Philips Healthcare (Respironics), Kennesaw, GA**

**August 2015 - January 2016**

- Experience in working with different microcontroller platforms including MSP430 and C2000 architecture.
- Experience in developing USB communication software and serial communication protocols using RS232.
- Working on Code Composer Studio IDE that supports TI's Microcontroller and Embedded Processors.
- Experience on working in testing environment for the SPOC device to determine the errors and fix it..
- Effectively used tools like MSP-FET flash emulation tool, TI XDS510, J-Link emulators to design, implement and debug embedded software in C/Assembly languages.
- Initializing and controlling the internal watchdog, interrupts and clock cycle of the MSP430 .
- Experience in working on nitrogen capacity tester and multiple sensors to develop the effective algorithm
- Programming the parsing engine to parse the user input effectively.

**Research Assistant – Texas Southern University, Houston, TX**  
**Wireless Sensor Networks**

**January 2015 - July 2015**

- Research on Power Management in Wireless Sensor Network.
- Research on Multiradio Multichannel networks on Wireless Sensor Networks.
- Performed paper presentation on NSF Center for Research on Complex Networks.
- Programmed NXT robot in LabVIEW to perform certain actions like obstacle avoidance.
- Created requirements for constructing DaNI robot with powerful motor.
- Built the remote lab to control the robot remotely.

## **EDUCATION**

### **Master of Science in Computer Science**

Texas Southern University-Houston, TX (GPA: 3.93/4.0)

Class 2014 - 2015

### **Bachelor of Engineering in Computer science**

Jaya Engineering College, Anna University (GPA: 7.9/10)

Class 2009 - 2013

**Relevant Coursework:** Web Services, Programmable Logic Controller, Algorithm Analysis and Data Structure, Computer Network, Advanced Database Management System, Project Management, Advanced Operating System.

## **SKILLS**

### **Programming Languages**

C#, Python, php, C, Java, C++

### **Databases**

MySQL, SQL, Oracle

### **Web Technologies**

Aurelia, HTML, CSS, JavaScript, Typescript

### **Linux Software**

Ubuntu, Fedora, RedHat

### **IDE**

Visual Studio, Eclipse

## **CERTIFICATION**

**Diploma** in Java Technologies (Sun Certified Java Programmer) and Oracle.

## **PAPERS**

**Test-Bed for Efficient Data Collection in Wireless Rechargeable Sensor Networks via Unmanned Vehicles.**

NSF CREST Center for Research on Complex Networks.

## **ACTIVITIES**

- Member of **CITSO** student organization for Science and Technology.
- In-plant training on “Software development Lifecycle” with .Net Exposure.