

# Karthik Pedapudi

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## OBJECTIVE

To work for an organisation where I can grow as an engineer and as an individual by contributing towards the aim of the organisation.

### Senior Software Engineer

- Built a large agent-facing web application. Used extensive advanced JavaScript against a .NET back end. Used JavaScript testing tools (YUI, and Jasmine), linters (JSLint/JSHint), as well as many smaller Node-base utilities.
- Created an internal web framework similar in scope to Angular.js, but closer in design to Knockout.js. This sophisticated framework grew up at the same time as Backbone and Spine, but went well beyond their capabilities.
- Formed and lead a group of 3 – 10 advanced JavaScript developers, interviewing, training, and mentoring. Formed JavaScript standards for the organization. Developed a Javascript toolchain for end-to-end JavaScript development within the company. Created and ran a company-wide JavaScript users group.
- Coached an offshore team, traveling overseas several times to train them in our systems.

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### Senior Application Developer

- Contributed to large media management system, working on middle-tier and back-end systems. Designed and built caching subsystem using JBoss and Hibernate. Designed inter-database replication system.
- Redesigned Web front-end to scheduling system using HTML, CSS, and JavaScript, with the JQuery library. And rebuilt parts of the SOAP mid-tier for the system.
- Designed and built document tracking/workflow system with HTML, CSS and JavaScript, using JQuery, JSON, and a REST architecture.

**May 2019 to present(2 years)**

### Responsibilities:

- Managing Custom and Standard packages for OpenWRT based Operating System.

Standard Packages: coova-chilli,openVPN,arp-scan,tcpdump Custom

Packages: custom MQTT client, XML based CLI

- ☐ Adding features to enhance wireless and wired capabilities of OpenWRT based wireless routers.
- ☐ Exposing these enhanced capabilities via XML based CLI and MQTT client-server setup
- ☐ Programming the custom MQTT client to enable/configure/monitor various features of OpenWRT based Wireless routers.

Libraries Used: lib-mosquitto,lib-jansson.

Language: C

- ☐ Setting up uboot environment in order to tftpboot kernel and file-system to the Wireless access point routers.
- ☐ Setting up MQTT server
- ☐ Providing documentation and high quality reports.
- ☐ Board bring-up using LFS(Linux From Scratch).(POC)

### **Emblologic Competency & Reasearch Labs**

**Intern(Trainee)**

**January 2018 to December 2018(1 year)**

- ☐ Character Driver based Parallel Port Device Driver Development
- ☐ Development of Linux Character Device Driver
- ☐ Client-Server model implementation using Sockets and Thread
- ☐ Client Server communication using Inter Process Communication Techniques: using Message Queues, Shared Memory, pipes, FIFO)
- ☐ Multiple Data Compression and Encryption using Iterative Techniques

### **ACADEMIC CREDENTIALS :**

- ☐ M.Tech (ECE)2019 from Vikrant Group of Institutions ,Indore(RGPV) (M.P.).(7.98 CGPA)
- ☐ B.Tech(ECE) 2012 from United College of Engineering and Research,GREATER NOIDA, GBTU). (64.8%)
- ☐ Class XII in (2007) rom Bishop Johnson School & college, Allahabad. (71.3%)
- ☐ Class X in (2005) rom Bishop Johnson School & college, Allahabad.(78.4%)

### **PERSONAL INFORMATION**

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