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| Objective | To effectively utilize my technical and analytical skills in order to enhance the growth of the organization so that both organizational mission and my goals are achieved.  To build a professional identity by serving in an organization which gives ample opportunities and challenges to grow and learn to the highest extent of my career. |
| Professional Attributes | * In-depth knowledge about the subject. * Ability to think and implement logically. * Timely submission of Assignments. (Complete dedication towards the subject). * Experienced in Internet of Things (Arduino, Raspberry Pi, and Development of Cloud Environment). * Willingness to learn new products and experience new technologies. * Ability to learn by self subjects with almost any complexity (Eg. Learning ‘Machine Learning’) which deals with a very high complexity. |
| Skills | 1. Communication skill ★★★★★★★★★★ 2. Programming – C, C++, Python, PHP   Web Development  Backend Design using PHP, SQL/NoSQL,  Python Flask  Frontend Design using HTML5, CSS3 and  Twitter Bootstrap ★★★★★★★★★★   1. Internet of Things, A hands on approach   Covering All types of Arduinos and Raspberry PI,  Embedded C, Embedded Python ★★★★★★★★★★   1. Data Structure and Algorithms- Analysis of Time   and space complexities ★★★★★★★★★★   1. Windows Networking   Windows Active Directory Services ★★★★★★★★★★ |
| Experience | Microsoft India R&D. – Bangalore, India Apr 2017 – June 2017  Intern   * Implementation, Automation and Deep troubleshooting of Microsoft Windows Foundation Technologies.  1. Implemented Scripts to automate the tasks in active directory such as bulk user creation, deletion and department specific alias 2. Understanding the Domain controller by spiking the lsass.exe process, spiking the Kerberos server to understand the TGS authentication with the help of Python Scripts. 3. Developed Cryptographic algorithms using Python 3.6.0 to understand the RFC 4880 OpenPGP, RFC 3447 RSA and RFC 1321 MD5.   Blog Link : http://crypto-python.blogspot.in   * Implementation of Machine Learning Algorithms  1. Implemented the Basic Machine Learning Algorithms such as Linear Regression and Logistic Regression Algorithms from scratch by understanding the calculus behind these algorithms. 2. Used Tensorflow and sklearn datasets to test my hypothesis. 3. Used sklearn to implement image recognition   Smart Parking System using Internet of Things July 2016 – April 2017  Major Project and Patent Publication  This project mainly focusses on reducing the time in finding the parking lots and also it avoids the unnecessary travelling through filled parking lots in a parking area. When the car is taken out of the parking slot record the time of exit and perform the calculation of interval between the start time and stop time and issue fine for the same. Open the exit gate on successful payment of the fine as obtained from the previous step.  KoreFabrik Inc. – Maryland, US June 2016 – August 2016  Development Intern   * **Type of Assignment**: Internet based research, coding for retrieving data from the internet, storing and displaying the result in a variety of formats, search query optimizations. * **Data sets**: Schools and Colleges in India, Student (allumni) and faculty data. * **Assignments**:  1. Representing information (school, student, alumni) in various Heat Map representations 2. Self study of JavaScript, jQuery, Ajax, Machine Learning, Search Query Optimization techniques in JavaScript (React js) 3. Exploring application of various known and new APIs from google, twitter etc.   SMART AGRICULTURE using ioT. May 2016 – July 2016  TEQIP-II Sponsored Project  To develop a smart Agriculture management system using the current emerging and sophisticated technology Internet of Things (IoT) thereby providing efficient yield thus retaining the fertility of the soil and avoiding soil erosion.  **Hardware :** Arduino, Raspberry Pi, Bluetooth (HC-05) module, WiFi(ESP8266) Module.  **Software** : Arduino C, Python Hardware, Web-development (Django, HTML, CSS,Js).  Link : <http://github.com/harsha0795>  Password Protected Locking system May 2015 – July 2015  using arduino.  Project and Paper Publication  In this current situation, the degree of security is feeble. So there is a lot of robbery, theft going on in and around the world. Many people prefer to keep it in banks. However, in this insecure world even banks are not too safe enough to satisfy people needs. A common man feels his valuables are secured if there is efficiency in security. Hence this project can give effective security in minimal cost.  **Hardware :** Arduino, 4x4 keypad, LCD (JHD 16x2)  **Software :** Arduino C  Link : [www.bvicam.ac.in/bijit/downloads/pdf/issue15/08.pdf](http://www.bvicam.ac.in/bijit/downloads/pdf/issue15/08.pdf) |
| Education | |  |  |  |  | | --- | --- | --- | --- | | Institution | Board / University | Academic Year | Aggregate | | Bachelor of Engineering (B E) | | | | | Nitte Meenakshi Institute of Technology | Visveshwaraya Technological University | 2013-2017 | 8.94 CGPA | | Intermediate (Pre-University) | | | | | Vijaya Composite PU College | Karnataka State Board | 2011-2013 | 81.33% | | High School | | | | | Sudarshan Vidya Mandir | Karnataka State Board | 2010-2011 | 90.72% | |
| Extra-Curricular Activities | * Delivered a technical talk on ‘Smart Agriculture using IoT’ at the TEQIP-II project review meet. * Presented an International journal on Password protected Locking System using Arduino January-2016. Copy Right © BIJIT –2016; January - June, 2016; Vol. 8 No. 1; ISSN 0973 –565 * Patent Publication on Multifactor Authentication suing Password and Finger print on Biometric Locker System * Patent Publication on Smart Parking System with Automated Fine management System using Internet of Things(IoT) * Winner in Coding Contest conducted by CodeGround Inc. * Participated in the International conference on **Emerging Research in Computing, Information, Communication and Applications, ERCICA 2015.** * Member at Computer Society of India (CSI). * Qualified GATE-2017 (Graduate Aptitude test for Engineering) Score: 623/1000.   Eligible for Research at IISc Bangalore and other Top IITs, IIITs and NITs. |
| Area of Interest | * Internet of Things (IoT). – Arduino UNO, Micro, Mega (All types), Embedded C Programming, Embedded Python, Raspberry PI (Both 2 and 3) * Machine Learning: - Linear Regression (Gradient Descent and R Squared Theory),   Logistic regression, Neural Networks (Forward and Back propagation Algorithms), Support Vector Machines (SVC Classifier), Decision trees, Image recognition using SVMs   * Operating System. * Data Structure and Algorithmic Analysis * Data communication and Networking. |
| Personal Details | Father’s Name: Mr. SRINIVASA B R.  Mother’s Name: Mrs. SUJATHA SRINIVASA  Date of Birth: 17/07/1995.  Languages Known: English, Hindi, Kannada and Sanskrit (very basic level).  Interests and Hobbies: Anime, Chess, Indian Carnatic Classical Music (Both Instrumental and Vocalist), Reading web-comics, Trekking, Swimming and Traveling. |