**Gurunath Reddy Bairi**

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**Career Goal**

Seeking a challenging environment that encourages continuous learning and creativity provides exposure to new ideas and simulates personal and professional growth.



**EDUCATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2019-present | | **ILLINOIS INSTITUTE OF TECHNOLOGY** | | Chicago, IL |
|  |  | *Master’s degree, Expected May 2021* | |  |
|  |  | *Computer Science Specialization in cloud computing* | |  |
|  |  | Privileged for having Graduate Pathway Scholarship,  Current CGPA: 3.66 | |  |
|  | |  |  |  |
| **SKILLS** | |  |  |  |
|  | Languages | : C, C++, Java, Html, Python, NodeJS. | |  |
|  | Database | : SQL Tool, NoSQL tool-DynamoDB. | |  |
|  | Operating Systems : | | MacOS, Windows XP / 10, **UNIX, LINUX.** |  |
|  | Packages | : | MS Office 2016/2019. |  |
|  | Other Skills | : | Cloud, AWS cloud, MPI programming. |  |
|  | |  |  |  |
| **EXPERIENCE** | |  |  |  |
| 2019 Jan-2019 June | | |  |  |
|  |  | **COGNIZANT** | | Chennai, Tamilnadu/India |
|  |  | ***Intern*** |  |  |

* Developed technical skills in Cloud Computing on platforms like Devops, Terraform, Aws Cloud.
* Worked as intern at Cognizant for six months during my last semester of bachelor’s degree, during this my profile was selected for three days Maker's Challenge Hackathon and implemented idea which is explained below useful to improve customer satisfaction in retail industries.
* **Project Experience - Real Time Demand Facilitator**:
* This project is to help and give assistance to customers in the retail shop or Shopping malls.
* Consider an aisle, using OpenCV this device will recognize the total number of people present in that aisle and notifies floor manager using Twilio that particular aisle is having a demand and needs assistance for customers asking him send salesperson automatically.
* Also auto upgrading graph display for the store manager to check which aisle or brands is having more demand. Overly this will increase the customer experience and more flexibility for the management of any retail industries.
* Technologies Used: OpenCV, Python, Twilio, Amazon Alexa, Html, CSS, Chart.js.

|  |  |  |
| --- | --- | --- |
| 2017 Dec | **SMART BRIDGE TECHNOLOGIES** | Hyderabad, Telangana/India |
|  | ***Intern*** |  |
|  |  Trained in cloud Amazon Web Services like DynamoDB. |  |

 Developed a web application using Html, NodeJS, that purely gives information about the poultry farming, most useful for farmer and deployed the application in AWS cloud platform using the Elasticbean stalk.

This project is to help poultry farmers in the agriculture field where a farmer can store daily data of production in his personal account instead of manual offline data maintenance. Data will be stored in DynamoDB of AWS and can accessed by the user anywhere using internet, also required notifications will be sent to the user using Simple Notification Service of AWS

 Trained in cloud Amazon Web Services like EC2, DynamoDB, IAM, S3, S3 Glacier, SNS, Elastic Beanstalk, SQS, Recognition, EMR, CloudWatch, RDS, ElasticCache, API Gateway, AWS auto-Scaling, Route 53

.  URL: [http://atpoultry.us-east-2.elasticbeanstalk.com.](http://atpoultry.us-east-2.elasticbeanstalk.com/)

**Leadership**:

 President of Computer Science Club at Sathyabama University (2017 -2019).

 Vice-Capitan in ninth and Capitan in tenth standard to a house during schooling.

 Campus Ambassador for Placement Season.



**MASTER’S PROJECT**

2019 Aug-2019 Dec

***EMPIRICAL EVALUATION OF VARIOUS RDSA TECHNOLOGIES***

Chicago, IL

**Description:**

* Evaluation of over fabric solution with different workloads for different operations (read and write) using single and multiple drives. Clusters used Initiator Ares-Comp-1, Target Ares-Comp-2, Target Ares-Comp-3
* NVMe is the new protocol and innovative way of accessing high speed storage media.

**Conclusions:**

* Write operations faster than read operations for single drive.
* Read operations faster than write operations for multiple drive.
* Network load influence the latency.



**JOURNAL PUBLICATION**

2018 Aug-2018 Dec

***AGRICULTURE E-COMMERCE FOR INCREASING REVENUE OF FARMERS USING CLOUD AND***

***WEB TECHNOLOGIES*** Chennai, Tamilnadu/India

**Description:**

* Developed an agriculture marketing system to assist in the sale and management of production for the farmer.
* The main aim of this project is to provide online web platform for poultry and agriculture farmers, where they can sell daily produced goods directly from their field location or from home itself without going elsewhere even to the market.
* Hence the produce that is brought from farmers will be available for customers who can buy vegetables, fruits, eggs, etc. online which will be delivered to them.
* Published Paper in **Journal of computational and Theoretical Nanoscience Vol. 16, 1-5, 2019** Copyrights @ 2019 American Scientific Publishers.



**ACHIVEMENTS**

* Certificate of merit in Object Oriented Analysis and Design in the 4th semester B.E.
* Successfully completed NPTEL Online Certification course on Fundamental Algorithms: Design and Analysis with a consolidated score of 54%.
* Successfully completed NPTEL Online Certification course on **Cloud Computing** with a consolidated score of 70%.
* Organized the Workshop for juniors on ‘**Cloud Computing-AWS Cloud’** on 16th and 17th March 2018 and given students hands on experience for using various services available in Amazon web Services like Ec2, IAM, Lambda Function, DynamoDB, Elastic Cache, S3, SNS, Rekognition etc.
* Active member of Computer Society of India(CSI) club.



**PERSONAL SNIPPETS**

* Language known : English, Telugu, Hindi.