

Hari Sai Raghuram Veeramallu

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EDUCATION

Shiv Nadar University

Bachelor of Technology in Computer Science and Engineering

Noida, India

Jul. 2016 – May 2020

- Minor in Mathematics
- Cumulative GPA: 8.57/10

EXPERIENCE

Software Development Engineer-1

Amazon

Jun 2021 – Present

Hyderabad, India

- Working as part of a confidential project.

Data Engineer

Josh Technology Group

Jan 2020 – Jun 2021

Gurgaon, India

- Perform data analysis to obtain statistical inferences and develop predictive models.
- Design Data Warehouse schema and perform ETL (*Extract, Transform and Load*) operations to load data into Warehouse for *CalyxPod* and *Chqbook*.
- Design and implement APIs for back-end services and processes.
- Design Cloud Architecture, configure and deploy application server.

INTERNSHIP EXPERIENCE

Data Science Summer Intern

Coartha Technosolutions Pvt. Ltd.

May 2018 – Jul 2018, Jun 2019 – Jul 2019

Hyderabad, India

- Developed a Named Entity Recogniser (*NER*) system using neural networks to identify skills and technologies for automated hiring platform.

Summer Intern

UKB IT Solutions Pvt. Ltd.

May 2017 – July 2017

Hyderabad, India

- Designed and developed Web and Mobile interface for *Farmer's Buddy* application.

PUBLICATIONS

- Pothuri, A., Veeramallu, H. S. R., & Malik, P. (2021). Knowledge graph augmented advanced learning models for commonsense reasoning. In *Iop conference series: Materials science and engineering* (Vol. 1022, p. 012038).

AWARDS & ACHIEVEMENTS

Deans List Award: Secured Dean's List Award Twice for exceptional academic performance in Spring 2019 and Monsoon 2019 semesters.

15th rank: Secured 15th rank all over India in ZS Data Science Challenge 2019.

Top 10 Teams: Selected as top 10 teams in GE SynerGE Hack'e'lth 2019.

Top 5%: Selected as top 5% candidate in AMTI (Association of Mathematics Teachers India) examination.

CERTIFICATIONS

Machine Learning: Online Certification from Stanford University through Coursera. [**Credential:** KR7FG3QXFGUA]

Specialisation in Applied Data Science using Python: Online Specialisation from University of Michigan through Coursera. [**Credential:** QFHGQ9FFWD5A]

Neural Networks and Deep Learning: Online Certification from deeplearning.ai through Coursera. [**Credential:** S37EDL3T4DU2]

TECHNICAL SKILLS

Languages: Python, Java, C, Postgres, MySQL, MongoDB, Cassandra, Couchbase, R, PySpark,

Frameworks: Node.js, Flask, FastAPI, Angular, React

Developer Tools: Git, Docker, AWS EC2, AWS EKS, AWS Fargate

Libraries: pandas, numpy, matplotlib, sklearn, seaborn, keras, tensorflow, sqlalchemy

PROJECTS

- CalyxPod** | *Python, PySpark, PostgreSQL, FastAPI, Docker, Amazon Cloud Platform* Apr 2020 – Jun 2021
- CalyxPod provides online recruitment solutions for companies and colleges.
 - Designed Data Warehousing schema and performed ETL to load existing data into Data Warehouse.
 - Developed Candidate Filtering Algorithm using various Machine Learning libraries like numpy, pandas, sklearn, keras and tensorflow and techniques like regression, classification, random-forests, decision trees, artificial neural networks, outlier detection and clustering to shortlist and recommend potential candidates to the company.
 - Developed automatic Custom Reporting Module using Python and Visualisation Tools like openpyxl, matplotlib and seaborn to generate reports.
 - Implemented APIs using fastAPI for the application to access data and back-end services.
 - Designed and configured Cloud Architecture to meet requirements like high performance, load-balancing, auto-scaling, backup and recovery.
- Knowledge Graph Augmented Commonsense Reasoning** | *Python, Pandas, Keras* Sep 2019 – Apr 2020
- Developed a Knowledge Graph enforced Deep Learning model to answer commonsense based multiple choice questions.
 - The model is based on Graph Convolutional Neural Network (GCN), Long-Short Term Memory (LSTM) and Hierarchical Path Attention Mechanism (HPA).
 - Paper published in IOP Conference Series: Material Science and Engineering (Vol. 1022, p. 012038)
- Chqbook** | *Python, Amazon Redshift* Mar 2020 – Apr 2020
- Chqbook is a neo-banking application for small business owners to manage banking operations like payments, receipts and transactions.
 - Designed Data Warehouse schema and performed ETL operations to load data into warehouse for multiple micro-services.
- MediBase** | *Angular2, Couchbase, Firebase, Flutter, Kairos Face Auth, Node.js* Aug 2019 – Nov 2019
- Designed and developed a cloud based Electronic Medical Record System to securely maintain consistent health records.
 - Designed a hybrid architecture to store data in centralised and distributed fashion.
 - Used biometric based secure authentication instead of traditional authentication technique to support wide-range of users around the world.
 - Presented at **GE SynerGE Hack'e'1th 2019** finals.
- NER System for Recruitment** | *Python, Pandas, Keras, Spacy* Jun 2018 – Jul 2018, Jun 2019 – Jul 2019
- Developed a Named Entity Recogniser system to identify specific skills and technologies from resumes to automate hiring process.
 - Developed the model using Spacy and Bi-directional Long-Short Term Memory neural networks.
- Happifier** | *Android Studio, Firebase, React* Jan 2019 – Apr 2019
- Designed and developed mobile and web application as a platform to seek online Mental Health Counselling and online Diagnosis.
 - Provided location, appointment, news and other services using api service.
- Negocio Conectar** | *Android Studio, Firebase* Aug 2018 – Nov 2018
- Designed and developed an Android mobile application as a platform to connect customers with the appropriate service providers.
 - Provided news service using news api services.
- Farmer's Buddy** | *Ionic Framework, Typescript, CSS, HTML, Firebase* May 2017 – Jul 2017
- Designed and developed a multi-platform mobile application to provide a friendly and suggestive platform to help Indian farmers.
 - Developed the application using Ionic framework keeping Firebase to store data.

EXTRA CURRICULAR ACTIVITIES

SNU Counselling Cell: Member
National Agenda Forum - India: Volunteer
Indian Nationals Cubing: Volunteer
SNU Breeze 2019 (Cultural Fest): Volunteer
SNU Breeze 2018 (Cultural Fest): Volunteer
Roboyantri (Robotics Society at SNU): Member