Sreekar Chigurupati

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Technical skills

- o Languages & Frameworks: Java, C++, Python, Javascript, React.js, Elasticsearch, Spark
- o Miscellaneous: AWS, Basic ML & Computer Vision
- o Technical Trainings: Agile, AWS, Spring Boot, PCF

Work Experience

Telstra Hyderabad

Software Engineer

July 2018-Present

- Developed a petabyte scale data warehousing and insights platform to effect end to end order visibility spanning multiple services
- Developed reporting and visualization pipelines on Elasticsearch and Kibana
- Developed a dashboard application for monitoring engineering metrics across development centers with inbuilt RBAC
- Developed a fullstack application with a GraphQL backend for maintaining organisation wide objectives and key results with a dependency management system
- Gained extensive familiarity with a technology stack consisting of React, Node, GraphQL, PCF and AWS
- Have built complete CI/CD pipelines using Bitbucket, Bamboo and PCF
- Architected a university connect program with an industry led elective course to upskill students on modern enterprise development methods
- Played a key role in the fruition of a maker space / innovation floor that facilitates employees to work on emerging technologies
- Placed first in a international organisation wide Hackathon by solving employee engagement issues related to internal movement and skill matching
- Placed first in a international cross-organisation Hackathon by reducing broadband customer transition cycle time by 25%
- Conferred with the "Dream team of the year" award
- Underwent training in AWS, Agile, Pivotal cloud foundry, Spring, MERN stack and Netflix OSS

Reflexis Systems Pune

Full Stack Developer Intern

January 2018-June 2018

- Worked on a web application that streamlines retail product strategy testing
- Built real-time dashboards for demographic based sales data using React, Spring Boot and MongoDB
- Built comparative line chart visualizations for A/B testing experiments using D3.js

ETHNUS Technologies

Bengaluru

Software Developer Intern

April 2016-July 2016

- Created and tested a framework supporting operations for a video call service
- Worked on key-value store Redis to store metadata for objects stored on AWS
- Created a multi-platform frontend using Ionic JS
- Configured Docker containers to run compiler workloads for a collaborative code editor with high availability and crash protection

WeMakeScholars Inc. Hyderabad

Web Developer

July 2015-January 2016

- Developed a visually pleasing PHP based website for a forum on student scholarships
- Optimized backend code to increase response times by up to 55% for domain specific phrase search

Microsoft IDC Hyderabad

Software Developer Intern

June 2015-August 2015

- Developed a wellness awareness app for the "Digital India" initiative
- Used Expression Blend to design wireframes
- Contributed to the cross-platform front end design
- Integrated Natural Language search API across varied datasets
- Worked with SQL Azure, Transact SQL and ASP.NET Web API

Education

B.E(Hons) Electronics and Communication Engineering

Birla Institute of Technology and Science, Pilani

2014-2018

- CGPA: 6.85

Undergraduate Projects

- Bi-directional Structured Output Tracking: 'Under the guidance of Mr. Abhishek Thakur Modified "Struck" algorithm to run bi-directionally to improve performance of object tracking over large temporal frames.
 - Implemented adaptive offline tracking-by-detection combined with robustness of SVMs to noise
 - Implemented Multiple instance learning to create a discriminative learning model
 - Worked with Larank and other kernel methods
 - Utilized OpenCV and Eigen to implement changes in bgs model
- Vehicular Density Calculation: 'Under the guidance of Dr. Aruna Malapati'

Devised an algorithm to track vehicular density and ease traffic decisions by extracting a time series data through processing of H264 videos obtained from IP cameras placed throughout the city. Done in collaboration with the Cyberabad Traffic Police.

- Used object detection to create time series congestion models
- Devised an algorithm to detect lane violation
- Live Migration of Virtual Machines: 'Under the guidance of Mr. Abhishek Thakur'

Orchestrated a live migration by utilizing xen environment.

- Implemented network migration of running virtual machines using POSTCOPY on linux VMs
- Benchmarked POSTCOPY Vs. traditional migration to check real time performance
- Programmed compatibility function to emulate flags like EPT to prevent migration failure
- Raga Similarity Detection: 'Under the guidance of Dr. Aruna Malapati'

Utilized Mel frequency cepstrum coefficients and other frame level audio features to calculate confidence scores for raga similarity of songs in a corpus.

- Implemented single exponential smoothing for ragas
- Analyzed music to capture note progression that represents a raga
- Comparative statistical structure analysis of ragas to determine psycho acoustics

- o **NDVI & Climate change correlation:** 'Under the guidance of Dr.Rajitha Kanjirappuzha' Worked on innovative computer vision methodologies applied to satellite imagery for correlating climate change with vegetation decline
 - Created Machine Learning models to identify land swathes in hyperspectral images
 - Created Vegetation models to predict correlation of NDVI indices and climate change

Relevant Courses taken

Computer Programming

Gained practical exposure to C programming. Studied and implemented basic programming constructs.

Data Storage Tech. & Networks

Gained understanding of the working of storage networks and data centre operation. Worked with Software defined storage tools like "CoprHD". Implemented Live Migration.

Information Retrieval

Studied the theory, design, and implementation of text-based information systems. Implemented a blog search engine based on vector space models. Implemented a collaborative recommendation system using Singular vector decomposition and CUR. Learnt about statistical language translation and multimedia information retrieval.

Object Oriented Programming

Gained hands-on experience in the object oriented methodology for programming, JAVA Programming. Obtained basic knowledge on notations in UML.

Non-university Courses.

o Google Machine learning crash course

Attended an ML crash course conducted at Google Hyderabad as part of the pilot program to shape ML self learning using Tensorflow.

CSA Summer School

The Department of Computer Science and Automation (CSA), Indian Institute of Science (IISc), Bengaluru held a five and a half day summer school during July 2-7, 2018. The summer school contained talks, demos, and hands-on sessions by the institute faculty, research scholars and industry experts covering theoretical and applied aspects of computer science.

Awards & recognition

o Runner up, SEC India Hackathon

Placed 2nd in a hackathon event across Telstra India for designing a proof-of-concept tool that eases the process of conducting agile standup meetings.

Best innovation award, ETHNUS

Placed 1^{st} in "innovation days" for interns at ETHNUS to rapidly develop a prototype that facilitates remote interviews in any way. Developed a collaborative code editor with syntax highlighting and sandboxed online execution environment.

Winner, ICC Hackathon

Placed 1st in a hackathon event across Telstra International for designing a tool to match skill sets to internal job postings and increase productivity and employee engagement.

o Winner, Telstra Innovation Hackathon 2019

Placed 1^{st} in a hackathon event across Telstra and its partners for designing an approach that reduces broadband transition cycle time by 25%.

o Dream team of the year

Conferred the "Dream team of the year" award for building innovative prototypes that helped the business scale OKR approach rapidly.