

Sreekar Chigurupati

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Technical skills

- **Languages & frameworks:** Java, C++, Python, Javascript, React.js, GraphQL
- **Technical training received:** Agile, AWS, Spring Boot, PCF, MERN Stack
- **Miscellaneous:** AWS, Basic ML & Computer Vision

Work Experience

- **Telstra** **Hyderabad**
IT Developer *July 2018–Present*
 - 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 industry led elective 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
- **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.....

- **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

- **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 1st 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.

- **Winner, Telstra Innovation Hackathon 2019**

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.