Kuriseti Ravi Sri Teja

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Education

Indian Institute Of Technology Delhi — New Delhi
B.Tech in Computer Science with Specialization in Data Analytics and Artificial Intelligence — *July. 2019 – May 2023*
GPA: 8.64/10

Sri Chaitanya Junior College — Vijayawada
Class XII, AP State Board — *2019*
Percentage: 97.9%

Sri Chaitanya High School — Vijayawada
Class X, AP State Board — *2017*
GPA: 9.8/10

Experience

Software Engineer (SDE-2) — [July 2023 - Present]
Cohesity India Private Limited — *Bangalore, India*

- As a Platform team engineer, maintained and improved the critical bootstrapping services for Cohesity's distributed storage clusters
- Successfully spearheaded OS migration from CentOS 7 to RHEL 9 across on-premises, multi-cloud, and hybrid environments, including comprehensive updates to SELinux policies, firewall configurations, and networking stack.
- Designed and implemented RESTful APIs for remote cluster management, enabling seamless control of IPMI users, storage devices, and network interfaces while eliminating need for physical access
- Developed scripts to automate CVE fixes for RHEL BaseOS across all environments (on-premises, multi-cloud, hybrid, containers).

Software Engineering Intern — [June 2022 - July 2022]
Cohesity India Private Limited — *Bangalore, India*

- Performed backend changes to add support for the Next Generation Cloud Edition.
- Enabled the support for adding tags to GCP-clusters deployed with the Control VM image.
- Received a Pre-Placement Offer after my internship.

Technical Skills

- **Programming Languages:** Python, Go, C++, Bash, Java, C
  - Also worked with HTML, CSS
- **Libraries:** PyTorch, Numpy, Matplotlib, Pytest, Open-CV, Scipy, Pandas, CUDA, Huggingface
- **Tools and Frameworks:** Postman, Docker, Git

Publications

Favoring One Among Equals - Not a Good Idea: Many-to-one Matching for Robust Transformer based Pedestrian Detection

- K.N Ajay Shastry, **K.Ravi Sri Teja**, Aditya Nigam, Chetan Arora

- Proposed a min-cost flow-based matching formulation to improve the detection of pedestrians on various pedestrian datasets using transformers which achieved state-of-the-art results on various public pedestrian datasets.
- Our **work** appeared in WACV-2024 (IEEE Winter Conference on Applications of Computer Vision).

Scholastic Achievements

- Secured **AIR-65** Rank among 2.5 lakh candidates in **JEE-ADVANCED** Examination-2019.
- Secured **AIR-136** Rank among 10 lakh candidates in **JEE-MAINS** Examination-2019.
- Stood among the **TOP-35** candidates in **NSEP-INPhO** Examinations 2018-19 and was awarded **GOLD MEDAL** and Certifcate Of Merit and attended the subsequent **Indian Orientation Cum Selection Camp** organized by **HBCSE(TIFR)** in **MUMBAI**.
- Stood among the **TOP-36** candidates in **INJSO** Examinations 2016-17 and attended the subsequent **Indian Orientation Cum Selection Camp** organized by **HBCSE(TIFR)** in **MUMBAI**.
- Secured **AIR-37** Rank in **KVPY-2017** in **SA-Stream** and became eligible for the **KVPY Scholarship**.
- Secured **State 1st Rank** among 1.9 lakh candidates in **AP-EAMCET** Examination-2019.
- Secured **State 1st Rank** among 1.3 lakh candidates in **TS-EAMCET** Examination-2019.
- Qualifed to appear in **INMO-2018; INAO-2018; INAO-2019; INChO-2019; INPhO-2019**.
- Secured 450/450 in **BITSAT-2019**.

*__HBCSE:__ Homi Bhabha Centre for Science Education. *__AIR:__ All India Rank.

Courses Done

- **Computer Science:** Introduction to Computer Programming, Data Structures & Algorithms, Discrete Mathematics, Digital Logic & System Design, Computer Architecture, Operating Systems, Artificial Intelligence, Computer Networks, Programming Languages, Theory of Computation, Parallel Algorithms, Machine Learning, Analysis & Design of Algorithms, Cryptography, Data Mining, Deep Learning, Natural Language Processing, Computer Vision, B.Tech Project Parts-1,2.
- **Mathematics:** Probability & Stochastic Processes, Linear Algebra, Calculus, Number Theory.
- **Electrical:** Introduction to Electrical Engineering, Signals and Systems

Research Projects

- **Object Detection using Transformers (Prof.Chetan Arora)** (July 2022 - June 2023)
  - Explored architectures of various state-of-the-art transformer-based object detectors.
  - Used DETR-based models to improve the accuracy of detecting various objects in the MAVI (Mobility Assistant for the Visually Impaired) Dataset.
  - Also worked on improving the accuracy of detecting pedestrians in various public datasets using transformer-based object detectors.

CS Course Projects

- **News Recommendations Using HNSW (Prof.Subodh Kumar)** (March 2022)
  - Used the Approximate Nearest Neighbour Search to provide news recommendations.
  - Recommendations were provided on the basis of learnt HNSW predictions.
  - Used Open-MPI and Open-MP to distribute the algorithm across multiple nodes and cores.
- **Web Database System (Prof.Maya Ramanath)** (March 2022)
  - Developed a Web Database System with a PostgreSQL database as backend
  - Used HTML,CSS,Flask as frontend and psycopg to connect to database.
- **Chat-Application (Prof.Abhijnan Chakraborthy)** (October 2021)
  - Developed a simple chat application using sockets in **Python**
  - Added support for both broadcast and unicast in the application.
- **Multi-Core Processor Simulation (Prof.Preeti Ranjan Panda)** (March 2021-May 2021)
  - Simulated a Multi-Core Processor that supports a sub-set of MIPS Instructions and Non-Blocking Memory in **C++**.

ML Course Projects

- **Dialog Parsing for Task-Oriented Dialog Systems (Prof.Mausam)** (April 2023)
  - Used pre-trained large language models to develop an NLP-Model that generates a parsed output based on the given context and dialogue information.
- **Traffic Prediction (Prof.Sayan Ranu)** (November 2022)
  - Used Spatio-temporal Graph Neural Networks to predict the traffic data in a road network for future time-stamps using data from past.
- **Taxi-World Learning (Prof.Rohan Paul)** (November 2021)
  - Implemented various reinforcement learning techniques such as Value Iteration, Policy Iteration, Q-Learning, SARSA to obtain the best possible policy for a taxi in a grid world that performs simple actions such as Pickup, Putdown, Move up, Move down, Move right and Move left.

Co-Curricular Activities

- **Chess:** Played Chess in State Level Competitions.
- Completed an Online course(**ARJUNA Webinars for Human Excellence or AWHE**) and also attended a workshop (**Prerana Workshop**) in 2019, conducted by the **ARJUNA GROUP TRUST**, a non-profit NGO.
- **Rubik's Cuber:** Can solve 2x2x2,3x3x3,4x4x4 Rubik's Cubes.
- **Competitive Coding: 4*** Coder on **Codechef** with Max-rating of 1962 and **Pupil** on **Codeforces** with Max-Rating 1394. Also a **Problem-Setter** on Codechef.
- **Capture The Flag:** Stood **third** among 50 teams in the Cohesity Security CTF Hackathon 2024.