Chebrolu Sai Prasanna Abhinav

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SUMMARY

I am a fourth-year student with a passion for technology, simplifying experiences using a creative, pragmatic, and iterative approach to problem solving and the drive for success. As a continuous learner with a growth mindset, always look for opportunities to participate in hackathons and overcome challenges to help the community we live in. Technical stack revolving around the backgrounds of Cloud Architecture and Development, Cyber/Info Security, Artificial Intelligence & Machine Learning, Data Analyst, Graphic Design, and Full Stack Development (MERN Stack). Great team player and self-critical to constantly improve myself and the organization Currently, looking to build my skills in the domain of cloud-based application development.

EDUCATION

2020-2024 **VELLORE INSTITUTE OF TECHNOLOGY** *Vellore, IN*

Bachelor of Technology, Major in Computer Science and Engineering; Cumulative GPA: ***9.15/10***

- ***Awards***: Schneider Electric Scholarship.
- ***Leadership***: Member Secretary, **Student Council**; Placements Co-Ordinator; Photography Club (Co-Secretary)
- Upgrading the college portal from on-demand to cloud system with entire architecture from scratch.
- Software Engineering; Operating Systems; Algorithms; Artificial Intelligence; Database Systems.

2018-2020 **FIITJEE JUNIOR COLLEGE** *Vijayawada, IN*

Board of Intermediate Education – AP; Physics, Chemistry and Mathematics (PCM Stream)

- Cumulative GPA: **8.88/10.0.** – (98% Percentile – JEE Mains)
- Developed an application for storing and sharing the doubts and notes platform with the community.

2018 **SRI CHAITANYA HIGH SCHOOL** *Addanki, IN*

Board Of Secondary Education, Andhra Pradesh

- Cumulative GPA: **10.0/10.0**; Best student awardee, NTSE Scholar, SIMO (All India 108th rank), INTSO
- Created a webpage consisting of all students' details of my batchmates using existing templates and plugins.

WORK EXPERIENCE

AMBIENT BASED SMART HOME WITH EMOTIONAL INTELLIGENCE Vellore, IN

Worked as ***Student Developer****; Guided by Prof. Manikandan N, Prof. Vanmathi C, Prof. Sasikumar*

- Ideation winner at LG Hack and Development behalf of VIT.
- This project aids in the recognition of people's voices and facial expressions, as well as their presence. Appliances can communicate back to us with their qualities. people without necessary consciously can easily adopt and use it.
- Television acts as the centralized control unit and provides a gateway which connects and controls all the appliances. Initially, it displays the status of all appliances.

LG CLOUD BASED STREAMING PLATFORM Vellore, IN

Worked as ***Executioner****; Guided by Prof. Manikandan N, Prof. Vanmathi C, Prof. Siva Rama Krishna*

- This project helps in streaming data in a multi-cloud environment that results in cost-optimization, scalability, MCU, reliability, and elasticity.
- Used webRTC as centralized transform data and Kubernetes and Learnt about microservices and multiple deployment strategies.

VELLORE INSTITUTE OF TECHNOLOGY Vellore, IN

Developer

- Worked as a full-stack developer at VIT's Career Development Centre, developed official web portal from scratch.
- Deployed Different sessions for in-detail statistics Extensive use of HTML, CSS, and JS Consists of all information about Placement & Training.
- Coded multiple certificates generator and mailer, that helps in creating and sending to respective holder with in seconds used parallel algorithms to compute faster.

PATENTS

BANDWIDTH BASED AUDIO AND VIDEO SPLITTING 07/22 – Filed Patent under Indian Patent

- Splitting of audio and video as different instances in the cloud
- Transmitting only audio when bandwidth is low by disabling video streaming.

RESEARCH PAPERS

AUTISM PREDICTION THROUGH BRAIN SIGNALS *February 2022*

Guided by Prof. Gopinath M.P., Prof. Aarthy SL.

SOFTWARE DEFECT DETECTION AND PREVENTION IN AGILE BASED PROCESS USING ARTIFICIAL LEARNING METHODS

Guided by Prof. Manikandan N, Prof. Ruby D, Prof. Gayathri A.

DEEP LEARNING BASED AUTOMATED IMAGE TRANSLATION FOR ANALYSIS AND DETECTION OF MALWARES IN REAL TIME SYSTEMS *August 2022*

Guided by Prof. Manikandan N, Prof. Ruby D.

UNIVERSITY PROJECTS

MULTI ROUND PRIVACY AND SECURE AGGREGATION USING FEDERATED LEARNING *April 2023*

Guided by Prof. Manikandan N, Prof. Ruby D.

- Capturing noise from IoT devices and predicting if there is any maintenance needed or not using Machine Learning. Sound signals will be transmitted to central server that helps in reducing the computing time (FL)
- Used TensorFlow for justification. Test accuracy is 76.92%

DEEP LEARNING BASED AUTOMATED IMAGE TRANSLATION FOR ANALYSIS AND DETECTION OF MALWARES IN REAL TIME SYSTEMS *August 2022*

Guided by Prof. Manikandan N, Prof. Ruby D.

- Detecting virus image transmissions by the DL and Image Processing techniques and stop injecting into systems.
- Contributed to Image segmentation and morphological analysis techniques, detection of viruses using DL algorithms. This reduces 74.5% of injections.

OTHER

- **Languages**: English (Fluent), Telugu (native), Hindi (intermediate), French (Foreign Language)
- **Coding Skills**: Python, Java, C/C++, MATLAB, Full Stack development.
- **Analytics Skills**: R Programming, SocNet-V, Excel, Rawgraphs, Flourish Studio, Zoho Analytics, Power-BI.
- **Technical Skills**: Cloud Computing (Amazon Web Services, Microsoft Azure, Google Cloud Platform), Information Security Analyzing, Salesforce, SAP, DevOps, Agile Computing.
- **Certifications**: AWS Solution Architect & IBM-AI Professional (Ongoing), AWS Cloud Practitioner, Microsoft Azure Fundamentals (AZ-900), Google Digital Marketing, Big Data – UC San Diego, MATLAB (Fundamentals, Onramp, Programming Techniques), Salesforce, Hackerrank (Problem Solving, Python)
- **Volunteering**: Volunteered most of the college events and lead the Riviera 2023 – Annual Sports and Cultural fest of Vellore Institute of Technology.