

HIMA VARSHINI PARASA

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EDUCATION

Georgia Institute of Technology | (CGPA: 3.75/4)

Aug, 2024 - Dec, 2025

Master of Science in Computer Science | Subjects: Machine Learning, Big Data Systems & Analytics, Database Concepts & Design, Software Analysis & Testing and Scientific Machine Learning, Data Visualization & Analytics, Information Security, Enterprise Computing

Velagapudi Ramakrishna Siddhartha Engineering College | (CGPA: 3.9/4)

Jul, 2017 - Jun, 2021

Bachelor of Technology in Computer Science and Engineering | Relevant subjects: Artificial Intelligence, Design & Analysis of Algorithms, Data Structures, Database Systems, Advanced Database Systems, Web Technologies, Cloud Computing, Programming in C, Java, Python, Operating Systems, Computer Networks etc.

PROFESSIONAL EXPERIENCE

Amazon Web Services (AWS), Hyderabad, India

Software Engineer – 2 | 5x Awarded

Apr, 2024 - Aug, 2024

- Led enterprise end to end migrations(20) to AWS, orchestrated AWS cloud operations for large-scale IPL events(5) to ensure seamless scalability and high availability, **reducing operational costs by 40%** and **improving system reliability by 30%** by optimizing cloud architecture.
- Built **6 AWS Security Hub** controls projected to **generate \$47M in ARR** through enhanced security and improved compliance with industry standards.
- Delivered **70+ trainings** (4.9/5 feedback rating) on AWS services and optimal deployments to an audience of global AWS employees.

Software Engineer - 1 | 10x Awarded

Sept, 2022 - Mar, 2024

- Engineered AWS solutions for threat detection/mitigation and user administration, **enhancing user management efficiency by 40%**, **cutting incident resolution time by 50%** through automating workflows and engineering operations.
- Developed automations, sandbox and tooling applications, using **Python, CloudFormation, Lambda**, **improving operational efficiency by 60%**.
- AWS IAM** (Identity and Access Management) **SME** (Subject Matter Expert) accredited since Aug, 2023.
- Authored **12 technical blogs** implementing AWS services for **data infrastructure optimization, enhancing security, automations for auditing resources, effective access management and migrations on Cloud**, **reducing** incoming support case volume on related topics **by 70%**.

Cloud Associate

Jul, 2021 - Aug, 2022

- Implemented advanced troubleshooting techniques for **1900+ cases** under AWS services- IAM, SSO, Organizations, KMS, Cognito, Config, Security Hub, CloudTrail, CloudWatch, EventBridge, S3, SQS/SNS, Lambda, CloudFormation, ACM, Route53, ELB, EC2, VPC etc. for high-priority incidents involving sensitive data, achieving a reduction in response times from 24 hours to 1 hour, with **a 100% customer satisfaction, and 300+ accolades**.

Software Engineer Intern

Mar, 2021 - Jul, 2021

- Developed **AWS Cognito userpool export feature** that allows customers to easily migrate data stored in AWS Cognito, leading to rise in the use of service by **25%** from the next quarter.

Tata Consultancy Services (TCS), Hyderabad, India

Jul, 2020 - Sept, 2020

Software Engineer Intern

- Engineered end-to-end (frontend and backend), an e-commerce platform featuring an interactive AI chatbot and integrated email notification system; improving user engagement by **65%**. Technologies: Google DiagFlow, Firebase, React JS and REST API.

TECHNICAL SKILLS

- Programming Languages: Python 3, C, C++, Java SE8, SQL, R, Kotlin
- Cloud computing: AWS(end to end application development), GCP(Building LLMs, FireBase), Azure(access management), boto3, Terraform
- Web Technologies: HTML 5, CSS, XML, JavaScript, PHP, BootStrap, ReactJs, Node.js (Express), Django, Flask, Golang
- Operating Systems: Windows 10, Ubuntu, Linux
- Database: SQL server, Hadoop, MongoDB, Firebase
- Application Server: Apache Tomcat, Netlify, ngrok
- Others: Git, Docker, TensorFlow, PyTorch, scikit-learn, Jira, Atlassian, Technical documentation, CI/CD, Jenkins, Customer service, QA test

CERTIFICATIONS

- 5x AWS Certified:** AWS Certified Solutions Architect Associate, AWS Certified Developer Associate, AWS Certified Security Specialty, AWS Certified Solutions Architect Professional, AWS Certified Machine Learning Specialty
- 2x CCNA Certified:** CCNAv7 - Switching, Routing, and Wireless Essentials (CISCO), CCNAv7 - Introduction to Cybersecurity (CISCO)

ACADEMIC PROJECTS AND PAPERS

LLM Ensemble for Sentiment Analysis on Internet Neologisms | **Technologies:** Python, ML, LLM Finetuning Techniques

- Fine-tuned and integrated five large language models into an ensemble, achieving **75% accuracy improvement** in neologism sentiment analysis.

Implementation of Learned Index Structures | **Technologies:** Python, ML pipelines, TensorFlow/Keras, NumPy, Matplotlib, SciPy, Database

- Implemented Google's academic research paper – "The Case for Learned Index Structures". Conducted a comparative study of indexing in native B-Tree indexing, Spline Interpolation, Linear Regression, and using Neural Network models against datasets of **1M- 2M rows**.
- Showcased Neural Networks' potential for **improving accuracy by 36%** motivating further implementation of Recursive Model Index (RMI) and hybrid ML+B-Tree ensembles.

PrintingQueue mobile application | **Technologies:** Flutter, Android Studio, Java, Firebase, React Native

- Developed an app to streamline university printing stations, **cutting wait times by 90%**; awarded Best Technical Project 2020, **published** in IRJET (Vol 7, Issue 8).

Transfiguring Handwritten Text and Typewritten Text | **Technologies:** Python (PIL), OCR, Tesseract, Angular, React Native

- Designed a web application converting typewritten text to handwritten **with 99% accuracy**; **published** in Springer Lecture Notes in Networks and Systems (Vol 311, Jan 2022).

EXTRA CURRICULAR ACTIVITIES

- Spearheaded the "Voice of The Engineers - VOTE" initiative within AWS, facilitating monthly team-building activities that enhanced morale and **increased employee engagement scores by 25%** in annual feedback surveys.
- Web Technologies and Cloud Computing Teaching Assistant for **360+ students** in VR Siddhartha Engineering College from 2019 - 2020.
- Application Engineer/Student Researcher** intern at IMS, Georgia Institute of Technology since Aug, 2024. Project implementation Teaching Assistant for **400+ students** at Georgia Institute of Technology since Jan, 2025.