

HARISH REDDY THALLA

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EDUCATION:

National Institute of Technology Warangal

Warangal, India | 2017 - 2021

B.Tech in Mechanical Engineering - CS Courses CGPA: 8.48/10

Relevant Modules: PSCP(CS101, CS102), OOPS(CS390), M-1(MH101), M-2(MA151), TT(MA236), NSM(MA261), Robotics(ME461)

PROFESSIONAL EXPERIENCE:

Senior Software Developer - TLM Recon, Standard Chartered Bank

Nov 2023 - Present

• Fullstack development:

- GET(GBS Engagement Tool): Spearheading a team in developing a consolidated application for tracking and managing GBS service requests, leveraging an internal framework(ServiceBench) using LitJs and Quarkus.
- IAM & Rubikmas: Directed the migration of two Pega applications to the Servicebench framework.

• Python & Shellscript automations: Data extraction, transformation & cleansing scripts for unorganised xlsx, xml, pdf files

- Email Integration: Engineered an extensive email integration framework using python to automate static creation in TLM.
- ETL Logic Extractor(POC): Designed a script that extensively wrangle complex Informatica workflow XMLs to extract transformation logic and summarize them using LLMs for non-technical stakeholders

Software Developer - DFT Data Science Team, Standard Chartered Bank

Jul 2021 - Oct 2023

Tech Stack: Frontend - Javascript, Typescript, React | Backend - Java, Springboot, Flask | DB - Neo4j, Oracle SQL, Postgres SQL

- SCypher: Worked on a D3.js-powered knowledge graph visualization application, enabling real-time exploration of 40M+ banking entities and their relationships, enhancing data-driven decision making.
- SAGE: Built an application to track & quantify automation impact through cost reduction metrics and FTE savings analysis
- Admin Portal and Smartbot: Built a unified portal featuring 40+ self-service applications and conversational chatbots to explore and analyze data/insights for 50k+ FAQs and

Co-Founder, CTO - DineWave, PulsePalette Private Limited

Aug 2020 - May 2021

Tech Stack: Frontend - Javascript, React | Backend - Java, Springboot | DB - Postgres SQL | Cloud - AWS

- Ideated and developed a comprehensive suite of restaurant management software solutions, integrating customer interfaces, staff operations, and administrative controls, driving 30% operational efficiency and 26% revenue growth for clients
- Designed and implemented a vendor marketplace and direct-to-consumer delivery service, eliminating third-party fees and optimizing supply chain operations
- Successfully exited through **product suite acquisition for \$25K USD**, with prior **recognition from Startup India** and **\$5K AWS startup grant**

Robotics & AI Engineering Intern - [Aufenbach](#)

Sep 2018 - Aug 2020

- [Project Armatus](#): Enhanced gaming experience by developing an ML powered VR setup & [omnidirectional treadmill](#) using Human Activity Recognition model built on CNN-GRU architectures to map IMU sensor activities to VR environment.
- [Self-charging peripherals](#): Achieved self-powered computer peripherals by designing electromagnetic energy harvesting mechanisms

Machine Learning Summer Intern - [Balnc Care](#)

June - Sept 2019

- Built a 200k basketball activity image dataset by designing a Human Pose Estimation model using stacked conv-deconv framework.
- Developed a basketball activity classification model using KNNs, TPOT and CNN-LSTMs for intelligent scene analysis.

Research Intern | Machine Learning Applications on Image Processing | NIT Warangal

May - June 2019

(Advised by [Prof. J Ravi Kumar](#))

- Provided Research Assistantship on multi-feature fusion architecture using HOG & VGG-Face for facial expression classification.
- Gave 3 seminars to 40 freshmen students on engineering applications of optimization techniques.

Machine Learning Research Internship | NIT Warangal

Jan - May 2019

(Advised by [Prof. Hari Kumar Voruganti](#))

- **Stress Analysis using CNNs**: Reduced stress analysis computation time from 6 minutes to 1 second with 0.32% mean relative error using CNNs and squeeze-excitation architectures like SE-ResNet that produce approximated stress fields for cantilevered structures.

PROJECTS:

Robocon International Competition | Undergrad Robotics Research Association

July 2019- June 2020

- Designed and fabricated 2 autonomous robots that collaboratively perform complex tasks on Rugby balls.
- Executed Motion planning & path planning with grid & sampling-based algorithms. Implemented object tracking using R-CNNs and DeepSort Techniques to actuate Robot's pneumatic system.

PATENTS:

- System for Harvesting Electrical Energy Generated from Mechanical Energy | **Application No** : 202041057250 | **Status** : Published

PUBLICATIONS:

- Self-charging Peripherals with inbuilt Power Harvesting System
Conference: ICMSMT2020 | **Published in** : IOP Conference Series | **DOI** : [10.1088/1757-899X/872/1/012036](https://doi.org/10.1088/1757-899X/872/1/012036)

SKILLS:

Full Stack Development | DataStructures & Algorithms | Programming | C++ | Python | Java | Javascript | Computer Vision | RNNs | GANs | Project Management |LLMs | Gen-AI |

COURSES & CERTIFICATIONS:

- *Robotics: Vision Intelligence and Machine Learning* | University of Pennsylvania | EdX Audit
- *Machine Learning A-Z: Hands-On Python In Data Science* | Udemy
- *CS231N- Convolutional Networks* | Stanford University | Youtube | Audit
- *Machine Learning* | Coursera | Andrew Ng
- *Neural Networks and Deep Learning* | Coursera | Andrew Ng
- *Data Structures and Algorithms* | GeeksforGeeks

EXTRACURRICULAR ACTIVITIES:

- **Co-Founder** - Phasors, startup aiming to provide free education to underprivileged students.
- **Founder**, Team Lead– Undergrad Robotics Research Association, NITW
- **Joint Secretary**- Mechanical Engineering Association, NITW
- Logistics Lead Associate - E-Summit 2019 (Entrepreneurial Fest-NITW)
- Event Manager- IPL Auction, SpringSpree 2018 (Cultural fest - NITW)
- Logistics & Publicity Subcore- Technozion 2019 (Technical fest - NITW)
- Event Manager (IPL Auction) & Subcore - Technozion 2018 & 2019 (South India's biggest technical fest)

ACHIEVEMENTS:

- **GEM Individual Award**- SC TTO Functions for building the interface for interacting with Fine-tuned LLM Models
- **Exceptional Contribution Award** - Award for contributing to the ServiceBench community
- State 3rd Mark in Class XI Board examinations (Telangana | 2016)
- 1st in *Innovation Garage* Hackathon - Ideathon (NIT Warangal | 2018)
- 2nd in *Innovation Garage* Hackthon - Makeathon (NIT Warangal | 2019)