

Satya Sai Teja Charla

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EDUCATION

Auburn University (*January 2023 – December 2024*)

Auburn, Alabama, U.S.A

Master of Science in Computer Science and Software Engineering | G.P.A: 3.55

Relevant Coursework – Computer Vision, Data Base Management Systems, Data Mining, Advanced Operating Systems, Advanced Computer Architecture, Artificial Intelligence, Advanced Algorithms, Web Application development,

Jawaharlal Nehru Technological University (*July 2018 to July 2022*)

Hyderabad, Telangana, India

Bachelor of Technology in Electronics and Communication Engineering | G.P.A: 7.1

Relevant Coursework – C programming, Python, C#, Web development

TECHNICAL SKILLS

Languages – Python, C Program, Java Programming, HTML, CSS, Javascript, MySQL, React, Node.js, JSON

Technologies – SQL Development, Unity, Bootstrap, Mongo DB, Ubuntu, Git, OpenCV, jGRASP

WORK EXPERIENCE

Java Graduate Teaching Assistant – Auburn University

Auburn, Alabama

I supported undergraduate students by teaching Java programming and data analysis. I accomplished this by preparing comprehensive course materials, conducting lab sessions, and mentoring students on complex programming concepts, which resulted in improved student outcomes.

Web Developer - Intern -Acciojob Growth Internship (*May 2022 to July 2022*)

Hyderabad, Telangana, India

I enhanced my skills in web development by creating dynamic applications using JavaScript, React, and Node.js. My focus was on building responsive user interfaces and back-end functionalities, which contributed to delivering robust and scalable solutions for diverse tasks

PERSONAL PROJECTS

Template Matching: Where's Waldo? (*Fall 2024*)

OpenCV, Python

- Detects and locates Waldo in complicated pictures using the method of template matching with OpenCV.

- Enhanced the precision of Waldo detection across varying image scales and orientations by applying multi-scale image pyramids, achieving a 30% increase in accurate identifications during testing scenarios with complex backgrounds.
- Using Deep Learning Model (Yolov5) to detect the object in complex environment.

Hill-Climbing: Wordle Solver *(Fall 2023)*

CNN, Python

- Developed an efficient algorithm for solving Wordle puzzles, optimizing for success rate and average guesses.
- Other Projects: Basic Machine Learning Implementation, Robot Path Planning, CNN Design in Keras, MDP Problem Solving.

Online Voting System using Blockchain Technology *(Spring 2022)*

Web Dev, NodeJS, React

- Developed a secure online voting system using blockchain technology, ensuring transparency and integrity in vote tracing and verification.
- Implemented a front-end using Bootstrap and React JS, providing a user-friendly interface for voters.
- Designed a back-end with blockchain principles to enable secure, tamper-proof tracking of voting transactions.
- Focused on enhancing security and user privacy by implementing cryptographic methods for secure data handling.

Web Development and Database:

SQL, Web Dev, JSON, React

- Built an Instagram Clone Application using JavaScript, JSON, and APIs, which demonstrates my full-stack development skills.
- A clean/minimal Online Compiler for the user to code HTML/CSS/JS on website.
- Developed a website where user can test their SQL queries by using Web Dev and MYSQL Workbench

Other Projects:

C, Web Dev, JSON, SQL

- Presenting papers on "MALCOM - Generating Malicious Comments to Attack Neural Fake News".
- Detection Models" and "Black-Box Adversarial Attacks with Limited Queries and Information",
- AUBatch: Designed and implemented a batch scheduling system using Pthread library.
- Pipe-based Word Count Tool: Created a C program utilizing Unix Pipes for inter-process communication.
- CPMFS: Implemented a simple file system with functionalities for file management.

CERTIFICATIONS & TRAINING

- **Harnessing Renewable Energy Resource Hackathon - 2020** – Jawaharlal Nehru Technological University
Issued Feb 2020
- **IETE Student Certificate** – IETE
Issued Nov 2019 – Expired Nov 2020
- **Workshop on PCB Design and Fabrication** – IAS Group MKR Industrial Automations & Services - India
Issued Nov 2019

- **AR & VR Workshop** – EduRidge India
Issued Aug 2019
 - **Summer Internship Program** – Nalla Malla Reddy Engineering College
Issued Jul 2019
 - **Robotics Workshop** – Path Creators
Issued Apr 2019
 - **Python Certificate** – HackerRank
Issued May 2022
Skills: Python (Programming Language)
 - **Web Development Certificate** – Eco Web Hosting Ltd
Issued May 2022
Skills: jQuery, Web Development, Bootstrap
 - **Unity C# Bootcamp** – GameDev.tv
Issued May 2020
Skills: C#
 - **IT Wizard Programming and Productivity Curriculum** – NIIT Limited
Issued Jun 2013
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Extra-Curricular Activities:

- Member of Auburn Film club since Spring 2023
- Member of Auburn Photography Club since Spring 2023
- Was Part of IETE Hyderabad from Dec 2020 - Oct 2022
- Certified Trainer and Certified Barista in Starbucks