SNG Viraj Reddy

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Education

REVA University　　　　　　　　　　　　　　　　　　　　　　Nov. 2021 - June 2025
Bachelor of Technology in Artificial Intelligence and Data Science - 8.7 CGPA　　*Bengaluru, India*

Experience

Swift Ride　　　　　　　　　　　　　　　　　　　　　　Oct. 2023 - Nov. 2023
Django Backend Developer　　　　　　　　　　　　　　　　　　*Bengaluru, India*

- Developed a referral system in Django using REST APIs and integrated Django libraries like Q2 and Jazzmine for task scheduling and UI enhancements.
- Executed a seamless migration from Firebase to Django with PostgreSQL

Technical Skills & Certifications

- **Languages:** Python, C++, HTML/CSS, JavaScript, SQL, Bash
- **Technologies/Framework:** TensorFlow, Linux, Git, Flask, Django, React, Firebase, Tailwind, Bootstrap, IoT
- **Other Skills:** Team Management, Leadership, Public Speaking, Debating
- **Certifications:** Introduction to Tensorflow by DeepLearning.AI, Google Cloud Platform, The Web Developer Bootcamp 2023

Projects

ST097-01B | CV | *OpenCV, Python, C++*　　　　　　　　　　　　　**January 2024**

- Developed Visual SLAM (Simultaneous Localization and Mapping) and advanced Object Detection software tailored specifically for a quad-wheeled rover, enabling precise exploration and mapping of uncharted territories.
- Coupled with a web application to monitor system progress in-real time.

LazyFiles | Systems Programming | *Bash, C, Python*　　　　　　　　　**March 2022**

- A repository of shell scripts and linux daemons to automate daily workflows
- Listed below are a few of the LazyFiles:
  - Oversee: An auto-reloader for C/C++ and Python files
  - No-Clip: A script to click images on a mobile device and seamlessly save it on computer clipboard

Saido | NLP | *Python, Pytorch, Transformers, Gradio, Langchain*　　　　**October 2023**

- Developed an advanced Conversational Bot for nuanced video comprehension and precise querying.
- Uses Pytorch, Transformers, Langchain's LLMs to give appropriate responses to queries and to perform text summarization.

Canoe | Blockchain | *Python, Socket, Flask*　　　　　　　　　　　**February 2023**

- Developed a Potential-based consensus mechanism for blockchain networks as an alternative to traditional methods like proof of work and proof of stake.
- This approach minimizes the emphasis on the monetary aspect of validations, prioritizing the potential of a validator for enhanced efficiency.
- Conducted simulations to validate its practical application.

Other Projects: Aerarium, Gitscribe, RevaHack2023, Plexus, Steward, Violet, Theatre-CLI, virajsazzala.dev

Mentorship & Extracurricular

Google Developer Student Club & Hackathon Club　　　　　Sept. 2023 - Present
Technical Team Member　　　　　　　　　　　　　　　　　　*REVA University*

- Organized a National-Level Hackathon - Reva Hack 2023, with prize and reward pool over 5cr.
- Developed and maintained the Official Reva Hack 2023 website, served to thousands of users.

Dev/Track　　　　　　　　　　　　　　　　　　　　June. 2023 - Sept. 2023
Student Mentor　　　　　　　　　　　　　　　　　　　　　*REVA University*

- Lead and developed various AI/ML projects, in collaboration with the club.
- Mentored student teams in the field of Web development.