

RAGHUVARAN DAMODARAN
SOFTWARE DEVELOPER

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SUMMARY

Passionate fresher having exposure with full-stack development, software development and cloud computing at problem-solving, networking, and algorithmic thinking. Strong academic background and hands-on project experience in Python, Flask, and web development.

PROJECT EXPERIENCE

IORRERA - NASA Space Apps Challenge 2024 (Oct 2024 - Nov 2024) : I took complete ownership as the sole developer and designer, building an interactive Space Science learning platform using HTML, CSS, and JavaScript. My efforts led the project to global recognition, securing *Best Use in Engineering* and *Local Favourite Project* at Utah University, Logan, USA. My overall contribution is 100%. **Skills:** Web Development, UI/UX, JavaScript.

Fresh Guard Thermo Oasis (Feb 2024 - Sep 2024) : As a core team leader, I played a significant role in optimizing post-harvest tomato storage using Peltier devices, temperature, and humidity sensors for efficient environmental control (40%). Additionally, I contributed to data analysis, module documentation, and system design (20%), helping the project qualify for *Level-1 Ideation* in *Niral Thiruvizha, Naan Mudhalvan* among 144 teams. This is my overall contribution of 70%. **Skills:** IoT, Embedded Systems, Data Analysis, Module Documentation.

CV Builderz (March 2023 - May 2023) : I developed a full-stack resume-building platform, handling both frontend and backend integration (30%). I also designed the database architecture and implemented secure CRUD operations using MySQL, PHP, and PHPMyAdmin (20%), ensuring efficient user data management. This is my overall contribution of 50%. **Skills:** Full Stack Development, Database Management, Web Development.

Snapshotz Algorithm (Mar 2023 - May 2023) : I structured and compiled the project's documentation (15%) for an OpenCV and Machine Learning-based photography algorithm. I also assisted in algorithm integration discussions, ensuring successful implementation and optimization for symmetrical photo capturing (5%). This is my overall contribution of 20%. **Skills:** Module Documentation.

KnowAR (Jan 2023 - May 2023) : As a lead developer, I built an Augmented Reality (AR) educational platform to enhance interactive learning (20%). I also worked on 3D modeling and web development (10%), creating immersive AR experiences for better student engagement. This is my overall contribution of 30%. **Skills:** Augmented Reality, 3D Modeling, Web Development.

EDUCATION

Anna University Regional Campus, Tirunelveli
Bachelor of Engineering in Computer Science and Engineering (2020 - 2024)
(Still Backlogs Pending – 2 and 70 %)

ACHIEVEMENTS

- NASA Space Apps Challenge 2024 - Global Judging Round
- Niral Thiruvizha Ideation - Selected among 144 teams
- Recognized by the Francis Xavier Engineering College, Tirunelveli in Paper Presentation .
- Recognized by the Honourable District Collector, Tirunelveli in KnowAR for my team work.

SKILLS

- Languages: Python, JavaScript, SQL
- Web Development: Flask, HTML, CSS, React
- Python Development and Machine Learning: Flask, Django, OpenCV
- Tools, Platforms and Database: MySQL, MariaDB (Linux), Firebase and Git, AWS
- Networking : CCNA .

CERTIFICATIONS

- Best Performer in Employability Skills Development Training Programme – Titan Leap Academy (VIIIth Semester Activity)
- Full Stack in Python Programming - GUVI Geek Networks, IITM Research Park (VIIth Semester Elective)
- Cloud Computing Program – Edureka (VIth Semester Elective)
- CCNA v7 Introduction to Networking - Cisco Networking Academy (Vth Semester Elective)
- Python Training in Basics - Besant Technologies, Chennai (Remote)

PASSIONS

- Known and Interested Subjects: Enthusiastic about AI, Command, Linux, Bash Programming and Full Stack Development.
- Learning Technologies: Enthusiastic about AI, Java and Flutter Fundamentals, Data Science and IoT advancements.
- Community Engagement: Active participant in tech forums, hackathons, and open-source contributions.
- Non Technical Aspects: Interested in Module Documentation, Video Editing, Content Writing, Learning Blender Module, story writing and interested and proud to be as a NSS Volunteer.

LANGUAGES: English - ★★★★★ (Fluent) | Tamil - ★★★★★ (Native)