Karthik Surendra Patnaik Potnuru

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SUMMARY

Enthusiastic and solutions-driven developer skilled in Python, JavaScript, and front-end technologies, with hands-on experience building scalable applications and creative tools. Demonstrates a strong foundation in algorithms, system-level development, and modern web stacks including ReactJS and Node.js. Passionate about AI, automation, and intuitive UI/UX, with a proven ability to learn fast and contribute effectively in fast-paced environments.

EDUCATION

- **B.Tech** (Electrical and Electronics Engineering) from [**Raghu Engineering College**] JNTUK Kakinada , Andhra Pradesh in **2022**, securing **7.67** CGPA
- Diploma (Electrical and Electronics Engineering) from [**M.R.A.G.R.Govt.Polytechnic College**],Vizianagaram, Andhra Pradesh in **2019**, securing **75.35%**
- AISSE from [**D.A.V**] Public School, Anakapalli, Andhra Pradesh in **2016**, securing **8.3** CGPA

TECHNICAL SKILLS

Languages: Python, JavaScript, C
Libraries & Tools: Numpy, CV2, Pandas, Numba
Frameworks: ReactJS, Node.js, Django
Technologies: MongoDB, Git, GitHub, OpenWeather API, Bootstrap
Other Tools: Photoshop, PyCharm, Hyper

CERTIFICATIONS

Python (Basic) by HACKERRANK   *Feb'23*

- Acquired Python certification from HackerRank, demonstrating proficiency in core programming concepts, data structures, and problem-solving skills.
- Covered topics such as loops, conditionals, functions, and basic data manipulation and verified coding abilities through real-world problem solving scenarios.

EXPERIENCE

Trainee Engineer - STEM World   *May 2025 -Oct 2025*

- Developed and enhanced UI/UX for the company website, improving visual appeal and user experience.
- Conducted website testing, identifying bugs and suggesting design improvements for optimal performance.
- Contributed to an open-source project, collaborating on feature enhancements and code quality.
- Taught coding to children and efficiently managed tasks within deadlines, demonstrating strong time management skills.

App Developer - Sri Jayalakshmi Internet Services, Anakapalli   *Jun 2022 - Jan 2025*

- Designed and launched an app using Google AppSheet to automate data collection and billing processes, reducing manual workload.
- Implemented seamless integration with data sources to fetch real-time information, ensuring accuracy and reliability in calculations.
- Automated bill calculations, improving operational efficiency and reducing errors by leveraging AppSheet's powerful functionalities.
- Delivered a user-friendly app interface accessible across devices, ensuring quick adoption and improved productivity for end-users.

PROJECTS UNDERTAKEN   **(Github)**

3D Voxel Engine in [Python]   *Jul'24*

- Currently developing a 3D voxel engine with advanced shading and texturing capabilities and Leveraging Numpy, Numba, and ModernGL for high-performance graphics rendering.

   Technologies: Python | Numpy | Numba | ModernGL

A* Pathfinding Algorithm in a Maze   *Jun'23*

- Developed an A* pathfinding algorithm to navigate through complex mazes and Utilized Pygame for visualization and Numpy for efficient array operations.

   Technologies: Python | Pygame | Numpy

System Volume Control Application   *Mar'23*

- Created a Python application to programmatically control the system volume and Integrated OpenCV (CV2) for enhanced functionality and user interaction.

   Technologies: Python | CV2

Automatic Chrome Dino Player   *Feb'23*

- Developed an automated player for the Chrome Dino game using Python and Utilized image recognition and keyboard control to achieve high scores.

   Technologies: Python | Numpy | Numba | NEET

Languages Know

English (Fluent)

Hindi (Proficient)
Telugu (Native tongue)