

KARAN VASUDEVAMURTHY

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Skills

- MySQL | C | C++ | Python | Java | HTML5 | CSS3 | JavaScript | Angular | React | XML | PHP | Git
- Data Structures | Algorithms | Artificial Intelligence | Computer Vision | Machine Learning | Android Development | Software Engineering
- NumPy | Pandas | Scikit-learn | TensorFlow | MediaPipe | OpenCV | Flask | Keras | Docker

Experience

Graduate Teaching Assistant

University of Texas at Arlington

08/2024- Current

- Supervised and instructed lab sessions on cybersecurity, covering cryptography, user/system/network security, and buffer overflows, improving students' practical skills and understanding.
- Conducted hands-on activities and demonstrations, leading to enhanced comprehension of key cybersecurity concepts.
- Invigilated exams and graded scripts, maintaining academic integrity and accurate assessment.
- Addressed and resolved student queries, contributing to improved academic performance and understanding of the subject.
- Involved in research and created proof of concepts for CVEs, demonstrating them to students to enhance their understanding of security concepts
- Conducted research on Linux security, exploring vulnerabilities and mitigation strategies to strengthen system resilience.

Intern

Visteon Corporation

09/2021 - 03/2022

- Automated image annotations and facial landmark detection to enhance driver-assistance technologies, improving accuracy and safety features.
- Contributed to the design of photometric alignment algorithms for the surround-view system, advancing the Mahindra XUV 700's market leadership with a 46% share in 2022.
- Integrated reverse camera features into Android OS, improving user satisfaction through rigorous testing and debugging, solidifying the company's position in in-car entertainment and safety experiences.

Education

Master of Science

Computer Science

University of Texas at Arlington

GPA: 3.75 / 4.0

2023-Current

Arlington, TX, US

Bachelor of Engineering

Computer Science and Engineering

Dayananda Sagar College of Engineering

GPA: 3.4 / 4.0

2019-2023

Bangalore, India

Projects

- Musiqi:** Developed a music player with Vite, Shazam API, and Firebase in a team project. [Github Link](#) (05/2024)
- LocalGPT:** Developed a LocalGPT project based on PrivateGPT including setup, model integration, and document ingestion using Python and the Nous-Hermes-13B-GGML model. [Github Link](#) (12/2023)
- Fake News Detection:** Contributed to one of a kind fake news detection system for India. Link to [GitHub](#) repository (05/2023)
- Skin Cancer Detection:** Led a team of four in the development of a skin cancer classification system. Link to [GitHub](#) repository (08/2022)
- College Management System:** Designed and developed a college management for Dept. of CSE, DSCE, Bangalore. [GitHub](#) (09/2021)

Publications

- Modi, K., Shreshth, S., **Vasudevamurthy, K.**, Yadav, H., & D, S., V. (2023). A literature survey on "Misinformation Flagging System." International Journal for Research in Applied Science and Engineering Technology, 11(1), 1705–1711. <https://doi.org/10.22214/ijraset.2023.48911>

Certifications

- Meta-** Introduction to Android Mobile Application Development. (07/2024) [Certificate](#)

Recognitions and Grants

- Qualified for the Innovation in Science Pursuit for Inspired Research (**INSPIRE**) award under the **Ministry of Science and Technology** of the **Government of India** and received a grant for an idea on converting moisture in the air into drinkable water.