Kshitij Thareja

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Education

Amrita Vishwa Vidyapeetham   Expected October 2026
Bachelor of Technology in Computer Science and Engineering(Current CGPA: 9.75)   *Amritapuri, Kerala*

Experience

GSoC' 24 Contributor - Learning Equality   May 2024 - August 2024
Testing/Automation
- Worked on implementing a visual regression testing mechanism for Learning Equality's Kolibri Design System.
- Integrated visual testing to KDS' GitHub workflows.

Open source contributor   November 2023 - Present
Web/DevOps
- Contributed to the code base of **Learning Equality** and **Internet Archive**.
- Worked on UI changes(ensuring expected behavior, tab accessibility), fixing backend errors(input sanitization, adding checks for backend calls), introducing new functionality, GitHub actions, etc.

Positions of Responsibility

amFOSS - Amritapuri Free and Open Source Software Club   Jan 2023 - Present
Member and Mentor | Website   *Amritapuri, Kerala*

amFOSS is India's leading open-source and Computer Science Club. Over the past 14 years, amFOSS has helped 100+ passionate students transform themselves into successful and innovative engineers, who today work across the world in Fortune 500 companies.

- Guided 20+ students and committed to ongoing mentorship for more, encouraging them to contribute to open source projects and participate in events such as hackathons, meetups etc.
- Led and orchestrated numerous events for the club, including various hackathons, and workshops.

Projects

HCI(Human Computer Interaction) application | *React.js, Django, Docker* | GitHub
- Developed a web application for a research paper to measure human-computer interaction. The study aimed to determine the extent of people's dependence on AI for their work and was conducted with over **500 volunteers**.
- Worked on the DevOps operations for the project. Dockerized and deployed the API in the server.
- Implemented the backend functionality for efficient storage and retrieval of data based on user's interaction with the application.

Martian Chronicles | *Python, PyQt6, NASA space API* | GitHub
- Made a GUI based desktop application to fetch images from NASA's Curiosity rover by utilizing NASA APIs.
- Made use of concepts like multi threading to make the operations run smoothly. Integrated mailing function so that users can send the fetched images to someone from within the app itself.

Technical Skills

Languages: Python, C++, Javascript
Technologies: React.js, Vue.js, Next.js, Django, Flask, TensorFlow, PyTorch, Node.js
Concepts: Web Development, Machine Learning, UI/UX Design

Achievements

- **Representative at G20 Conference 2023:** Represented university as a technical expert, contributing to global discussions on key issues and innovations in the field of Cybercrime and Security. Inducted as a member of the first cyber volunteer squad, a group initiated by the I4C under MHA to fight cyber crime.

- **GSoC Contributor (2024):** Selected as contributor for GSoC' 24 under Learning Equality.