Darshan K S

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EDUCATION

Manipal Institute of Technology   **2020 – Present**
B.Tech in Computer Science and Engineering with Minor in Big Data   *Manipal, India*
Cumulative GPA: 8.49 / 10.00

EXPERIENCE

Robert Bosch Centre for Cyber-Physical Systems   **Dec 2022 – Jan 2023**
Robotics Research Intern (certificate)   *Bangalore, India*

- Worked on the development of the software stack(ROS) and the hardware interface for a 3DOF articulated robotic arm aimed at pesticide spraying application. Supervisor: Dr. Shishir Kolathaya

Project MANAS   **May 2021 – Jul 2023**
Member of Sensing and Automation division (certificate)   *Manipal, India*

- Member of the official AI and Robotics team of Manipal Institute of Technology. Participated in the SUAS 2022 competition. Worked on interfacing LiDARs and Inertial sensors for our self-driving car, Eve.

Formi   **Jan 2022 – Apr 2022**
Web Developer   *Manipal, India*

- Part of the founding team, and developed a website for an affiliate network and an event ticketing platform, implemented with the MERN stack.

PROJECTS

Distributed File System | Python   **2023**

Implemented a DFS in Python over a network of LINUX based computers, with data replication, remote file manipulation, access transparency, and data concurrency.(Report / View)

Expense Tracker | Django   **2023**

A full stack expense tracker web application built on Django, PostgreSQL and ChartJS, with monthly budgeting, CRUD on expenses, and statistics and insightful predictions on personal budget. (View)

Shell of Qarth | Python   **2022**

A custom Linux shell built on Python, with common commands(CRUD for files and directories, reverse search, system info) as well as a few custom commands that seem a useful addition.(View)

ACHIEVEMENTS

SUAS 2022   **Jun 2022**

- Ranked 18th out of 71 teams from around the world in the competition, 2nd in Flight Readiness Review and 10th in Technical Design Review at Maryland, USA. (Rankings / Paper / Video)
- Designed and developed a web app(MERN) for object classification system with localized image crop-frame geotagging for a continuous image stream from the UAV. Also interfaced the camera for automated transfer and set up a wireless communication network for UAV to ground station image transfer.

SKILLS

Industry Knowledge: Web Development, IoT, Robotics, UX design
Programming Languages: C/C++, JavaScript, Python, Java, SQL, PHP, Julia
Tools and Stacks: Django, ReactJS, CUDA, Shell Scripting, Robot Operating System(ROS)
Certifications: Google UX Design Specialization(credentials), Big Data Integration and Processing (credentials)

ACTIVITIES

- Writer at Manipal the Talk Network, an independent media organisation run entirely by students in Manipal.
- Screenwriter at Naqaab Filmmaking, the official filmmaking club of Manipal.
- Organizer at Revels 2022, the annual national-level Sports and Cultural festival of Manipal Institute of Technology. (certificate)