Arjun Rose J S

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Education

- **Karunya Institute of Technology and Sciences** — Coimbatore, India
  Bachelor of Technology - Robotics ad Automation (Specialisation in Artificial Intelligence) — *Pursuing*

Online Courses:

Python on Kaggle and Simplilearn and GUVI, AWS DeepRacer: Driven by Reinforcement Learning, Analysis Of Algorithms, Problem Solving Using Computational Thinking" course on Coursera, Linux Tutorial on Great Learning Academy, Speaking Effectively on NPTEL, Hacking and Patching on Coursera, AI For India 2.0 program on Guvi, Autodesk Fusion 360, Network Addressing and Basic Troubleshooting on CISCO, Getting Started with AI on Jetson Nano by Nvidia, Introduction to Industry 4.0 and Industrial IoT by NPTEL, Google Cybersecurity certification, Microsoft Azure Fundamentals certification, IBM Robotic Process Automation

Skills Summary

- **Languages**: Python, C, C++, HTML
- **Tools**: GIT, Arduino Ide, Thonny Ide, Lab View, Fusion 360, Solid Works, AutoCAD, Keil Vision, MatLab
- **Platforms**: Linux, Web, Windows, Arduino, Raspberry Pi, AWS, Nvidia Jetson Nano
- **Hard Skills**: Machine Learning, Computer Vision, Robotics, Automation Systems
- **Soft Skills**: Leadership, Team Collaboration, Project Management, Problem-Solving, Time Management

Experience

- **IOT and Robotics Club** — Offline
  Jan 2023 - Present
  - **Description**: Active member of the IoT and Robotics Club at the Computer Technology Centre, Karunya, engaging in hands-on projects and collaborative learning in IoT and robotics technologies. .
- **Google Developer Student Club - GDSC** — Hybrid
  Sep 2023 - Present
  - **Description**: Successfully completed the Google Computing Foundations and Generative AI Level 3 Pathways within the Google Developer Student Club (GDSC) program.
  - **Rewards**: Awarded certificates and exclusive swag items from Google in recognition of exemplary performance.
- **Tamil Nadu Newsprint and Papers Limited - Internship** — Offline
  05-06-2024 to 04-07-2024
  - **Description**: I gained hands-on experience in working with all automation systems within the company. I had the opportunity to observe and contribute to the automation processes, enhancing my understanding of industrial automation and its applications in a real-world manufacturing environment.

Projects

- **People Detection in Disaster Areas Using Jetson Nano**: Developed a people detection system using Jetson Nano for identifying and locating individuals in disaster areas, enhancing search and rescue operations.
- **Builded a Raspberry Pi 4-Based Face Detection System**: Implemented a face detection system using Raspberry Pi 4 to accurately identify and track faces in real-time.
- **Humanoid Robot**: Collaboratively engineered a Humanoid Robot capable of handshakes and waving 'hi' using Arduino Mega, Arduino Uno, servo motors, RGB lights for eyes, and 3D printed parts.
- **Digital Level Scale**: Developed a Digital Level Scale using Arduino Nano, an accelerometer and gyroscopic sensor to accurately measure and display angular displacement.
- **Steam Engine Prototype Demonstration**: Created a small prototype demonstrating the basic principles of a steam engine, showcasing how steam pressure is converted into mechanical motion.
- **Light Tracking Robot**: Created a Light Tracking Robot using Arduino, LDRs, motors, and a motor driver, designed to autonomously follow light sources with precision.
- **Smart Plant Monitoring System**: Developed a Smart Plant Monitoring System using ESP8266 that senses temperature, humidity, soil moisture, and motion, automatically waters plants, and provides real-time data to a mobile phone.
- **Mimic Robotic Arm**: Designed and built a Mimic Robotic Arm using a customized PCB, Arduino Nano, potentiometers, and servo motors, allowing precise control through manual input.
- **DTMF Based Home Automation System**: Developed a DTMF Based Home Automation System that enables remote control of home appliances using Dual-Tone Multi-Frequency signals from a phone.
- **Bluetooth Controlled Grass Cutting Robot**: Developed a Bluetooth Controlled Grass Cutting Robot using Arduino Uno, motors, and a Bluetooth module, enabling mobile phone control for efficient grass cutting.
- **Obstacle Avoidance Robot**: Designed an obstacle avoidance robot using an ultrasonic sensor, Arduino Uno, motors, and a motor driver, enabling autonomous navigation by detecting and avoiding obstacles.
- **Line Follower Robot**: Built a Line Follower Robot using IR sensors, Arduino Uno, motors, and a motor driver to autonomously navigate along a path.
- **Created a Real-Time Filters Using Python for Face Detection and Augmentation**: Developed a Snapchat-style filter application using Python to apply real-time effects and enhancements to faces captured through a camera.

Honors and Awards

- **Outstanding Performance** in the Life Induction Program at Karunya - Aug 2022
- **Project Exhibition Award** at MindCraft, Karunya - Feb 2024

Volunteer Experience

- **NCC Brass Band** — Karunya, Coimbatore
  Positioned as Eufonium Player and performed for Republic Day, Independence Day — *Aug 2022 - Present*
- **Rotaract Club** — Karunya, Coimbatore
  Member of the Rotaract Club at Karunya, participating in community service activities. — *Aug 2023 - Jun 2024*
- **National Service Scheme** — Karunya, Coimbatore
  Member of the NSS Club at Karunya, participating in Social service activities. — *Aug 2022 - Jun 2023*