

ARUN BALAJI A

STUDENT

YEAR OF COMPLETION 2024

SKILLS & ABILITIES

- ✓ Android Development (Flutter)
- ✓ C++, Python, SQL
- ✓ React JS, Node JS
- ✓ HTML, CSS
- ✓ Embedded C
- ✓ Data Structures and Algorithms (DSA)
- ✓ Communication skills

CONTACT DETAILS

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LinkedIn: [link](#)

GitHub: [link](#)

LANGUAGES

English, Hindi, Tamil

PROJECTS

Fitness App: (JUNE 2023 - JULY 2023)

Developed a user-centric Fitness App using **Flutter** and **DART**, integrating **APIs** for personalized diet plans and workout scheduling. Incorporated beginner-friendly exercise tutorials and videos to enhance user experience.

GitHub: [link](#)

Flipkart Clone (Abcart): (SEP 2023 - OCT 2023)

Created a Flipkart replica with the MERN stack, leveraging **MongoDB**, **Express JS**, **React JS**, and **Node JS**. Integrated Paytm payment gateway for secure transactions and deployed on **Heroku**. Utilized **Redux** for efficient state management.

GitHub: [link](#)

Line Following and Obstacle Detection Robot: (NOV 2023 - DEC 2023)

Developed an automated robotic system using Arduino and raspberry PI. Integrated sensors for line tracking and obstacle detection. Implemented alarm triggering upon impediment identification and resumption of operation post-clearance. Utilized Flask for web interface development.

GitHub: [link](#)

OBJECTIVE

Innovative software engineer with a strong foundation in programming and problem-solving. proficient in multiple programming languages and development tools. experienced in full-stack development, agile methodologies, and software testing. proven ability to design and implement scalable, efficient, and maintainable software solutions. passionate about staying up-to-date with emerging technologies and collaborating with cross-functional teams to deliver cutting-edge products.

INTERNSHIPS

Flutter Developer Intern

Yali Aerospace Pvt Ltd, Thanjavur

(JAN 2023 - MAY 2023)

- ✓ Developed "Yali Sky Base," an IoT-based Flutter application for managing Drone Base Station operations. **Integrated API, Firebase**, and **Python** Anywhere Cloud for real-time command execution and data transmission.
- ✓ Implemented disk rotation control for drone landing and takeoff. Utilized Flutter, **Android Studio**, and **Java** for development.
- ✓ Increased performance **40%** by reducing the latency.

Research Engineer Intern

Yali Aerospace Pvt Ltd, Thanjavur

(JAN 2024 - APR 2024)

- ✓ Developed a Drone Ground Station Application using **QML**, and **UML**. Enabled precise control and monitoring of drone operations with real-time parameter monitoring and geospatial integration. OOP's structure was implemented for readability
- ✓ Achieved **50%** reliability improvement through tuning parameters. Seamlessly integrated with **microcontrollers** and **IoT sensors** using object-oriented principles.
- ✓ Conducted thorough **testing** and **debugging** throughout the **software development life cycle**, ensuring **optimal** functionality and **reliability** of the project.

EDUCATION

B.Tech – SASTRA University, Thanjavur

- ✓ CGPA:7.61
- ✓ OCTOBER 2020 - JUNE 2024

AWARDS

Presented IoT-based drone control app to Zoho Corp CEO Sridhar Vembu. Endorsement boosts commitment to engineering impactful products. Dedicated to innovation in tech domain.

INTEREST

Technical

Android development, Full stack development, software development, Internet of things,

Non-Technical

Cricket, Gym, Video Editing.