Antony Aakash S

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Summary

Energetic and detail-oriented Electrical and Electronics Engineering undergraduate student with hands-on experience in Python programming and web application development using flutter, flask and Django. Demonstrated leadership as a team lead in software projects, combining technical skills with effective project management to deliver user-focused solutions. Recognized for excellence in both technical and volunteer activities, and passionate about leveraging programming to drive innovation in technology-focused environments.

Education

St Xavier's Catholic College of Engineering, BE in Electrical and Electronics Engineering   Nov 2022 – May 2026

- CGPA: 8.79/10.0

- **Coursework:** Electrical Drafting using Autocad, Power System Analysis using Scilab & Matlab, Electrical Designing using Excel, Control System Designing using Matlab

St Antony's Matriculation Hr Sec School, HSC   May 2022

- Percentage: 76.5%

St Antony's Matriculation Hr Sec School, SSLC   May 2020

- Percentage: 96.5%

Experience

Flutter Developer, FlutterFrog Software Solutions – Nagercoil, India   Feb 2024 – Mar 2024
- Led a team of five, managing end-to-end project delivery and client interactions.
- Spearheaded the development of an online directory application for BNI and YES (Youth Entrepreneur School), Nagercoil.
- Designed and developed the user interface, ensuring an intuitive experience for member search and contact management.
- Architected the data model and integrated the application with Firebase for secure, real-time data handling.
- Received official recognition from YES Nagercoil for delivering a high-impact, user-focused solution on time and within budget.

Student Intern, Manatec Electronics Pvt Ltd – Puducherry, India   July 2024
- Worked in the production and manufacturing sector, specializing in the assembly of wheel alignment equipment.
- Conducted MATLAB-based data calibration for precision wheel alignment systems.
- Assisted in the installation and configuration of software on computers used in wheel alignment operations.
- Collaborated with manufacturing teams to ensure quality standards in the assembly process.
- Gained hands-on experience in both hardware assembly and software integration for automotive diagnostic solutions.

Electrical Designing & Drafting Intern, IIGEM Pvt Ltd – Coimbatore, India   June 2025 – July 2025
- Worked in the production and manufacturing sector, specializing in the assembly of wheel alignment equipment.
- Conducted MATLAB-based data calibration for precision wheel alignment systems.
- Assisted in the installation and configuration of software on computers used in wheel alignment operations.
- Collaborated with manufacturing teams to ensure quality standards in the assembly process.
- Gained hands-on experience in both hardware assembly and software integration for automotive diagnostic solutions.

Projects

Garbage Image Classification Model

- Developed a real-time garbage image classification model capable of detecting and categorizing waste types such as plastic, metal, and paper using webcam input.
- Leveraged deep learning techniques to automate waste identification and support efficient waste management.
- Tech Stack: Python, Yolo, Google Colab, OpenCV, Pandas

Django CRM Application
- Built a Django-based CRM web application with MySQL backend for managing client data.
- Implemented user authentication and full CRUD functionality for seamless operations.Integrated responsive Bootstrap UI and maintained version control with Git/GitHub.
- Tech Stack: Django, HTML, Git

E-Commerce Microservice Application
- Developed modular e-commerce microservices for product, order, and payment management using Flask with automated CI/CD via Jenkins, Docker, and Kubernetes.
- Ensured seamless API integration and testing using Postman, and streamlined deployment using Ansible, Helm, and shell scripting in a WSL Docker environment.
- Tech Stack: Flask, Jenkins, Docker, Kubernetes, Ansible, Helm, Postman

AI ToDo App
- Developed a full-stack AI-powered ToDo application using Flask backend with JWT authentication and MongoDB, enabling secure user management and task CRUD operations.
- Integrated Google Gemini for AI-driven task suggestions and built a React + TailwindCSS frontend with state management using zustand and seamless routing, tested with pytest.
- Tech Stack: Flask, React, Tailwind CSS, MongoDB, JWT, Google Gemini, Pytest

Technical Skills

Languages: Python, Dart, Java, C, Scilab, Matlab, JavaScript, Tailwind CSS, Bootstrap

Frameworks: Flutter, Django, Flask, React

Database: SQL, MongoDB

Version Control: Git

Technologies: Pycharm, VSCode, Github Desktop, eSim, Jupyter Notebooks, Google Colab, Canva, Excel, PowerPoint, AutoCAD, Lyzr AI, Azure AI Services

DevOps & Microservices: Flask microservices, Jenkins CI/CD, Docker, Kubernetes, Helm, Ansible, Shell scripting, Postman API testing, WSL Docker

Soft Skills

Leadership   Team Management   Adaptability & Eagerness to Learn   Optimist   Positive Attitude

Achievements and Recognitions

- Awarded Best Student Volunteer for consecutive two years for organizing over 5 successful events in IET, demonstrating strong leadership and event management skills.
- Secured First Prize in GTEC Education Cybersecurity Quiz Examination, and achieved top honors in paper and poster presentations at Tech fests in St Xavier's Catholic College of Engineering.
- Won First Prize for project presentations at symposiums held at Mar Ephraem College of Engineering and Cape Institute of Technology.
- Selected for the IET Present Around the World Local Network Competition at Trivandrum through Inter-college qualifiers.
- Participated in developing a Control System Toolkit for Scilab, organized by the FOSSEE Club, IIT Bombay
- Selected through college qualifiers and participated in Smart India Hackathon (SIH) 2023 and 2024, representing our college at the National level.
- Solved 100+ problems on GeeksforGeeks using Python, strengthening problem-solving and programming skills.