

Abel George Stanley

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PROFILE SUMMARY

Software developer skilled in Java/Spring Boot and Python/FastAPI, with practical experience in Docker and Linux server deployments.

Built a college-funded IoT solution using YOLOv8, Python, and Raspberry Pi for real-time currency detection, assisting visually impaired users.

B.Tech IT student with a strong track record of delivering end-to-end software solutions, from concept to deployment.

EDUCATION

Rajagiri School of Engineering and Technology

Expected 2026

Bachelor of Technology (B.Tech) in Information Technology

- Academic Marks: 8.35 CGPA (current)
- Relevant Coursework: Data Structures, OOPs, DBMS
- Activities: EXECOM Member, NDLI Club(2023-24)

Bhavan's Munshi Vidyashram

2020 - 2022

Higher Secondary Education

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, JavaScript
- **Web Technologies:** HTML, CSS, FastAPI, Spring Boot, REST APIs
- **Database Technologies:** SQL, MongoDB, PostgreSQL
- **Tools & Platforms:** Docker, Postman, Git, Google Colab, VS code
- **Machine Learning & IoT:** YOLOv8 (Object Detection), Roboflow (Dataset Preparation), Raspberry Pi

PROJECTS

Real-Time Currency Detection for Visually Impaired

College-Funded Project

Tech: YOLOv8, Python, Machine Learning, Image Detection, Raspberry Pi

- Developed a wearable neckband device using Raspberry Pi to help visually impaired individuals identify Indian currency denominations, detect damaged notes, and receive real-time audio feedback using Python.
- Integrated YOLOv8 for real-time object detection and added screen image detection logic to prevent scams involving currency images shown on digital displays.

Home Server & Self-Hosted Services

Tech: Docker, Linux

- Built a Linux server on repurposed hardware, deployed services like Nextcloud, Plex, Portainer, Homarr, and personal websites using Docker containers.
- Secured remote access via Cloudflare Tunnel while monitoring services through Portainer UI

Product Management Backend App

Tech: Java, Spring Boot, H2, JPA, REST APIs

- Built a CRUD-based backend application using Spring Boot and JPA to manage product details.
- Developed RESTful APIs and tested endpoints thoroughly using Postman for all CRUD operations.
- Gained experience in MVC architecture, entity relationships, and in-memory database operations.

Test Your Model

Tech: FastAPI, Python, JavaScript, HTML

- Created a web application with a FastAPI backend for users to upload YOLO models and media (images/videos) for processing.
- Enabled object detection on uploaded media, preview of results, and downloading of processed outputs.

ACTIVITIES

- **HIVE NIGHT Hackathon (2024)** – 3rd Prize for YOLO-based face recognition attendance system (IEDC/IIC).
- **Hacks'Us Hackathon (2023)** – Built *QBus*, a real-time bus tracker (Flutter + Google Maps).
- **SIH Ideathon (2024)** – Nominated for Smart India Hackathon (IEDC/IIC @ RSET).
- **Workshops:** "WebDev Bootcamp" (CSI), "Web Development Essentials" (NDLI Club).
- **NDLI Club RSET** – Operations Collaborator (2023-24).