

# Balaji Koushik S

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## EDUCATION

### Vemana Institute of Technology

B.E. in Electronics and Communication

Bengaluru

Dec. 2020 – May 2024

### Sahyadri PU College

Pre-University

Kolar

May 2018 – July 2020

## EXPERIENCE

### Full Stack Web Developer

Futureol Infotech Pvt. Ltd.

Aug 2024 – Feb 2025

Bengaluru

- Developed and maintained dynamic web applications using Angular, Node.js, Express, and MySQL/PostgreSQL.
- Designed and optimized RESTful APIs for seamless frontend-backend communication and implemented authentication using JWT and OAuth.
- Ensured performance optimization, responsiveness, and Agile collaboration (Git, JIRA, Scrum).

### Full Stack Web Developer

Take It Smart Pvt. Ltd.

Aug 2023 – Oct 2023

Bengaluru

- Developed a grocery shop website to facilitate a seamless and user-friendly shopping experience.
- Implemented authentication, product management, and order processing, integrating RESTful APIs.
- Optimized performance, security, and scalability through rigorous testing and debugging.

Website: <https://github.com/balajikoushik2003/bksbasket.com/tree/main>

## PROJECTS

### AI-based Smart Hydroponics System | Spigot API, Java, Maven, TravisCI, Git

Mar 2024 – May 2024

- Developed a smart hydroponic system using ML algorithms (Lasso, KNN, ANN) and IoT sensors for optimal crop growth.
- Achieved higher accuracy in crop production, resulting in healthier and faster-developing plants.
- Demonstrated a plant growth rate of 0.9 cm/day, surpassing rates in previous IEEE papers.

### Waste Management System using IoT | Python, Flask, React, PostgreSQL, Docker

June 2023

- The system separates waste into categories: wet, dry, electronic, and plastic waste, enhancing productivity.
- Each type of waste is detected by sensors and segregated into assigned bins, with details updated on the server.

## ACHIEVEMENTS

- Presented a research paper on **AI-based Smart Hydroponics System** at ICWITE 2021. [Link](#)
- Completed eSim test by IIT Bombay (Spoken Tutorial project). [Link](#)

## CERTIFICATIONS

[Python Pro Bootcamp](#) | Udemy

May 2023

[Web Development Bootcamp](#) | Udemy

Aug. 2022

[JAVA FULL STACK course](#) | Quntrex

Aug. 2024

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS

**Libraries/Frameworks:** React, Django, Angular

**Developer Tools:** GitHub, Docker, VS Code, PyCharm, IntelliJ, Eclipse