Balaji Koushik S

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Career Objective:

To excel as a Full Stack Web Developer, leveraging my 6 months of experience across various domains to develop efficient and scalable web solutions using the latest technologies. With strong technical and analytical skills, I aim to contribute to solving complex business challenges, optimizing performance, and enhancing user experience. Seeking a challenging role in a dynamic company that fosters innovation, professional growth, and continuous learning in web development.

Technical Skills:

- Database: PostgreSQL, SQL (MySQL).
- Programming languages: Proficient Java, Python, C/C++, JavaScript, HTML/CSS
- Query Languages: SQL
- Development Env Tools: Git, PyCharm, Visual Studio, VS Code, GitHub ,IntelliJ
- Frameworks: React, Django, angular

Functional Skills:

- Strong analytical and problem-solving skills for debugging and optimizing web applications.

- Quick learner with the ability to adapt to new technologies and frameworks.

- Assisting in onboarding new team members and helping them understand project workflows.

- Collaborating with developers and designers to ensure smooth project execution.

- Willingness to take initiative and contribute to team discussions and problem-solving.

- Good communication skills.

Internship*:*

1. Futureol Pvt Ltd (Aug 24– Feb 25)

- 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.

- Utilized NgRx for state management, ensuring scalability and efficient application architecture.

- Ensured performance optimization, responsiveness, and Agile collaboration (Git, JIRA, Scrum).

2. Take It Smart Pvt Ltd (Aug23-oct23)

- Implemented authentication, product management, and order processing, integrating RESTful APIs for seamless frontend-backend communication. Optimized performance, security, and sclability through rigorous testing and debugging

- Developed a full-stack Grocery Shop Website with a responsive UI (HTML, CSS, JavaScript) and a secure backend (Django, PostgreSQL/MySQL)
- **Website:** Grocery Shop

Project Details:

1. ***AI based smart hydroponics system***   (Spigot API, Java, Maven, Travis, Git)   *Mar 24– May 24*

- **Role:** Hardware Design, IoT System Development, Project Management

- Developed a smart hydroponic system using machine learning algorithms like Lasso regression, KNN, and ANN methods. Utilized IoT sensors to monitor nutrients, pH levels, and humidity, ensuring optimal growth conditions for crops.

- Achieved higher accuracy in crop production, resulting in healthier and faster-developing plants compared to traditional farming methods. Conducted extensive sensor measurements 4000 times over a span of 3-4 days, demonstrating a plant growth rate of 0.9 cm per day, significantly higher than rates reported in previous IEEE papers.

2. ***Waste Management System using IoT*** (Python, Flask, React, PostgreSQL, Docker)   *jun-23*

- **Role:** Hardware Design, IoT System Development, Project Management

- Each type of waste is detected by respective sensors and segregated into assigned bins, with details of the amount of waste disposed updated regularly on the server.

- The system separates waste into categories: wet, dry, electronic, and plastic waste. This developed system is not only cost-efficient but also enhances productivity in waste management. Simulations allow for comprehensive testing, including edge cases that might be difficult or costly to replicate in the real world. This ensures that the ATS is robust and reliable before deployment. Simulations are verified around 3-4 times a day.

Certifications:

- Python Pro Bootcamp Udemy   *May 2023*
- Web Development Bootcamp Udemy   *Aug 2022*
- JAVA FULL STACK course in quntnex   *Aug 2024*

Academic details:

Qualification	Board/ University	Percentage/CGPA
Bachelor of Engineering (ECE)	Visvesvaraya Technological University	6.78
PUC (Science)	Karnataka Pre-University Board	67%
Secondary School Examination (S.S.C.)	Karnataka Secondary Examination Board	90.04%