

# **YUVRAJ BISWAL**

Web Developer

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## **Summary**

A second-year Computer Science student with hands-on experience in full-stack web development and intermediate in AI/ML and devops. Strong foundation in programming, databases, and frameworks like React, Vue, Nuxt. Passionate about solving complex problems and building scalable, user-focused applications. Actively seeking opportunities to grow in a collaborative and innovative environment.

## **Experience**

Shabzak Tech Pvt Ltd.	Remote
Web Development Instructor	07/2024 - 09/2024
Remote position focusing on teaching web development	
<ul style="list-style-type: none"><li>Designed and delivered a Vue.js course from beginner to advanced levels.</li><li>Created project-based curriculum using Nuxt.js, emphasizing real-world application and teamwork.</li></ul>	

## **Education**

Silicon University	Bhubaneshwar, India
B.tech in Computer Science	09/2023 - Present
<ul style="list-style-type: none"><li>Relevant coursework: Data Structures, Algorithms, OOP, DBMS, Operating System, Software Engineering.</li></ul>	

## **Projects**

### Maze Wizard - AI-Powered Dungeon Chase

Git repo :- <https://github.com/Yuvraj-cyborg/Maze-Wizard>

A Rust-based 2D dungeon chase game featuring an evolving AI enemy using reinforcement learning

- Developed a custom Q-learning model from scratch in Rust to enable the enemy to learn from each round using a reward-penalty system.
- Integrated Reinforcement Learning (RL) to make enemy behavior adaptive over time, providing a level-up experience with each round.
- Demonstrated knowledge in open source game engine Bevy, game loop architecture, AI/ML algorithms, and 2D game logic.

### Gradsy – Web-based Quiz and Learning Management System

Git repo :- <https://github.com/Yuvraj-cyborg/Gradsy>

Web application for managing quizzes, learning materials, and user roles

- Developed using Java (Spring Boot) with a Vaadin-based frontend for a seamless UI experience.
- Implemented role-based access for teachers and students, allowing content creation and quiz attempts.
- Used H2 file-based database for local development and rapid testing.

### Voting Platform – Odisha Television Network

Live :- <https://www.otvinsight.com>

Developed and deployed a production-grade voting platform for a high-traffic social media event.

- Handled 50K+ users per hour via Vercel, stress-tested for peak concurrency.
- Managed over 356,000 Supabase storage requests per day during April 2025.
- Built with React, Express.js, PostgreSQL, Prisma, Docker, and Supabase.
- Designed for reliability and zero downtime during heavy user voting spikes.

### QuikBase - Database API Service

Git repo :- <https://github.com/Yuvraj-cyborg/quickbase>

A Go-based web application providing robust RESTful API services with PostgreSQL integration

- Automated schema creation, credential generation, and API access.
- Integrated PostgreSQL for reliable data persistence and complex queries.
- Developed using Go and Gin web framework for high-performance API endpoints.
- Containerized the application using Docker for consistent deployment.

## **Skills**

Docker • Git • GraphQL • Java • JavaScript • Linux • ExpressJS • Next.js • Nuxt.js • PostgreSQL • Python • React • Rust • SQL • Tailwind • TypeScript • Vue.js • Go • C