YUVRAJ BISWAL

Web Developer

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 Github   in LinkedIn

🪪 Summary

Computer Science student with hands-on experience in building scalable, secure, and production-ready web applications. Skilled in designing RESTful APIs, database modeling, containerization, and distributed systems. Passionate about high-performance backend development and solving real-world scalability challenges.

💼 Experience

Shabzak Tech Pvt Ltd.   07/2024 – 09/2024
Web Development Instructor   Remote
Remote position focusing on teaching web development
- Designed and delivered a Vue.js course from beginner to advanced
  levels.
- Created a project-based curriculum using Nuxt.js, emphasizing real-
  world application and teamwork.

📂 Projects

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/quikbase
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.

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
- Built with Bevy game engine in Rust, implementing both traditional pathfinding and AI-based
  enemy behavior.
- Integrated A* pathfinding algorithm for initial enemy movement patterns.
- Developed a custom reinforcement learning system using Q-Learning from scratch in Rust.

- Implemented a reward-penalty mechanism for the AI to learn and adapt from previous gameplay rounds.
- Created an evolving difficulty system where the enemy becomes more challenging as it learns from player interactions.

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 RESTful backend using Java Spring Boot with H2 for local dev/testing.
- Implemented role-based access for teachers and students, allowing content creation and quiz attempts.
- Supported content creation, quiz management, and real-time score evaluation.
- Integrated Vaadin frontend for tight UI-backend coupling and fast prototyping.

🏅 Achievements

- Built a production-ready voting platform for a high-traffic event on OTV, scaling to over **50,000 concurrent users/hour** and handling **356,000+ daily storage requests** on Supabase.

- **Developed a Neural Network from scratch in Rust**, shared on LinkedIn; the post received **130K+ impressions**, widespread appreciation from engineers globally, and praise for systems-level implementation in a low-level language.

- Selected for the **Solana Superdev Fellowship India (2025)** technical test round; built a secure HTTP API in Rust to expose cryptographic and blockchain-related operations.

- Taught full-stack web development as a **Web Instructor at Shabzak Tech**, designing a project-based curriculum that helped learners transition from basics to real-world deployment with Nuxt.js.

🧠 Skills

Languages — Go, Java, Rust, Python, TypeScript, JavaScript, SQL, C

Backend Frameworks and libraries — Express.js, Gin, Spring Boot, Axum, FastAPI

DevOps, Databases, and ORMs — Docker, Git, Vercel, Prisma, PostgreSQL, SQL

Other Libraries and Frameworks — React, Vue.js, Nuxt.js, Tailwind, Next.js

🎓 Education

B.tech in Computer Science   09/2023 - Present
Silicon University   Bhubaneshwar,
- Relevant coursework: Data Structures, Algorithms, OOP, DBMS, Operating   India
  System, Software Engineering.