

RITIK RAJ

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EDUCATION

Dayananda Sagar College of Engineering, Bengaluru

B.E Computer Science and Engineering

CGPA : 8.89 (till 8th Sem)

Karnataka, India

2020-2024

EXPERIENCE

Associate Software Engineer | Light and Wonder

Aug 2024 - Present

- Architected and developed **LoadTest**, a full-stack web application using **React.js**, **Python**, and **MSSQL**, driving a **75% improvement** in gameplay performance through **real-time database and memory optimization**.
- Engineered scalable **ETG Server** simulators for **Roulette** and **Baccarat** games in **Python**, optimizing **PT-DT** communication and **enhancing operational efficiency** in live gaming environments.
- Resolved critical **Sprint JIRAs** in **AdminConsole** and **RapidExpressServer** using **C#**, **.NET Framework**, **MSSQL**, boosting system reliability and reducing production defects by **60%**, accelerating feature implementations and improving player satisfaction.
- Contributing to the migration of **AdminConsole** from a monolithic **MVVM** model to a scalable **Web API-based** architecture using **ASP.NET Core** and **MSSQL**; developed **60+ RESTful endpoints** to enable modular development, improve backend scalability, and support faster future integrations.

Software Engineer Intern | Light and Wonder

Mar 2024 - July 2024

- Developed **automation** test scripts using the **Fitness** Framework on **X-series** protocol, enhancing codebase comprehension in **C++** & **C#** and improving the operational efficiency of **ArgOS** & **EGMs** by **20%** during the **Capstone** project.
- Redesigned the **Operator Menu** by replacing **50+** legacy handlers with **WebSocket handlers** in **C++** and modernizing multiple **UI** screens using **React** and **TypeScript**, enhancing user interaction speed by **30%**.

Full Stack Developer Intern | Alhansat Solutions Private Limited x IEEE Bombay Section Sep 2023 - Oct 2023

- Spearheaded the end-to-end development of **Hirelogix**, an Application Tracking System (**ATS**), serving as the **Technical Lead**. Mentored and guided a team of **14** interns, resulting in a **40%** improvement in the job application tracking process for recruiters.
- Architected the design and **database** schema using **Prisma** & **MySQL** and successfully implemented the entire project from **scratch** using **SvelteKit** and **Node.js**.

PROJECTS

FoodHub [\(Repo\)](#) [\(UI Application\)](#) (Reactjs, Tailwind, Nodejs, Expressjs, MongoDB, Git, Vercel)

- Collaboratively developed a **full stack** application for **food delivery** that offers seamless ordering and real-time updates, providing an efficient and reliable platform for food delivery.

DeCharge [\(Repo\)](#) [\(UI Application\)](#) (ReactJs, TailwindCSS, MapsAPI, Ethersjs, Solidity, HardHat)

- Innovated an online Web3 portal for **Decentralise Co Charging Station** to create a network of distributed electric vehicle charging stations for EV users.

Waste Sorter [\(Repo\)](#) [\(Application\)](#)

(ReactJs, TailwindCSS, Git/GitHub)

- Crafted **User Interface** for an **open-source** Waste Sorter Management project, enabling waste image submission. The existing ML model identifies waste types and recommends proper color-coded dustbins for disposal.

PROGRAMMING SKILLS

Languages : C/C++, C#, Python, JavaScript, Java

Tools : Git, Visual Studio, Perforce, Advanced Installer

Platforms : MongoDB, MSSQL, AWS, PostgreSQL

Frameworks : React.js, Node.js, Nest.js, .NET, ASP, MVC

AWARDS AND CERTIFICATIONS

- **Best Project Award** - Recognized among **71** teams at **Project Open Day 2024** by DSCE, Bangalore, for the project "Deep Learning Model for Detecting Copy-Move and Splicing Forgeries in Images." [\(Link\)](#)
- **Bits Pilani Hackathon** - Developed **FeedIndia**, a web application enabling users to donate surplus food for feeding people or composting. [\(Link\)](#)
- **CSE Department Hackathon** - Created **Healthcode**, an Android app to detect nutrients in food and suggest healthy meals. [\(Link\)](#)