RITIK RAJ

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SUMMARY

Software Engineer with **1.5+ years** of experience in backend and full-stack development. Proficient in **C# .NET, REST APIs, MSSQL, PostgreSQL, Python, and React**, contributing to globally deployed production systems. Seeking a **Backend / Full Stack** role.

EDUCATION

Dayananda Sagar College of Engineering, Bengaluru   Karnataka, India
B.E. in Computer Science and Engineering   **CGPA: 8.89**   (2020 – 2024)

EXPERIENCE

Associate Software Engineer | Light and Wonder   Aug 2024 - Present
- Developed an internal **load testing and monitoring tool** using **React.js, Python, and MSSQL** to analyze database and system memory usage, reducing manual performance analysis by **30%**.
- Built a **Python-based ETG Server Simulator** to replicate communication between **Player and Dealer Terminals**, enabling early-stage integration testing without physical hardware.
- Resolved **critical production issues** in **AdminConsole** and **RapidExpress Server** using **C#, .NET Framework, and MSSQL**, improving system reliability in live deployments.
- Contributed to migration from **.NET Framework to .NET Core** and added **PostgreSQL support** alongside MSSQL, enabling **Linux** deployments and improving deployment flexibility.
- Designed and implemented **60+ REST APIs** while transitioning a **monolithic MVVM AdminConsole** to a **Web API-based architecture**, improving modularity and maintainability.
- Implemented a **database abstraction layer** to support **runtime switching** between MSSQL and PostgreSQL via the **Server Management Console (SMC)**.
- Refactored **Config SRM** by migrating static SQL-based initializations to **JSON configurations** and removed market-specific checks from the codebase that helped in reducing server rebuilds during QA cycles.
- Contributed to **feature development, code reviews, and releases** for deployments across **US, China, Korea, and Singapore markets**.

Software Engineer Intern | Light & Wonder   Mar 2024 – Jul 2024
- Developed **automation test scripts** using **FitNesse** on **X-Series protocol**, improving testing efficiency and understanding of **C++ and C#** codebases.
- Modernized **Operator Menu** by replacing **50+ legacy handlers** with **WebSocket handlers** in **C++** and updating UI using **React and TypeScript**, improving response time by **30%**.

TECHNICAL SKILLS

Languages:	C/C++, C#, Python, JavaScript, Typescript, Java
Frameworks:	ASP.NET Core, .NET, MVC, React, Node, Nest
Databases:	MSSQL, PostgreSQL, MongoDB
Tools:	Git, Visual Studio, Perforce, Advanced Installer, Docker, Postman
Platforms:	Linux, AWS

PROJECTS

FoodHub (Repo) (UI)   **(React.js, Node.js, MongoDB)**
Developed a full-stack food delivery platform with real-time ordering and status updates.

DeCharge (Repo) (UI)   **(React.js, TailwindCSS, Solidity, Ethers.js)**
Built a Web3-based decentralized EV charging station discovery platform.

AWARDS & CERTIFICATIONS

- **Best Project Award** — Project Open Day 2024 (among **71** teams), DSCE   (Link)
- Participated in multiple hackathons including **BITS Pilani, Flipkart Grid, TVS Credit E.P.I.C 5.0**, building real-world applications including a food donation platform **FeedIndia** and a nutrition tracking Android app **Healthcode**.   (Link)