

Bhagyaraj BK

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TECHNICAL SKILLS:

- **Programming** - Javascript, Typescript, PHP
- **Backend** - Node.js, Express.js, NestJs
- **DevOps** - Deployment (AWS Lambda, AWS EC2, Render), Containerization (Docker)
- **Database** - MySQL, DynamoDB

EXPERIENCE:

- [\[Link\]](#) **Juego Studios Private Limited** | Software Developer | April 2022 – present

PROJECTS:

- [\[Link\]](#) **Korus Universe**
 - Spearheaded the minting of Soundmosaic AI generated digital music assets with the help of Mintfactory's web3 SDK and ThirdWeb's invisible wallet integration.
 - Outcomes included increased user engagement levels and Trending #1 on all chains in OpenSea in 2024.
 - Leveraged technologies such as NestJs, DynamoDB, MySQL 8.1, Redis, Jest, and Bitbucket for repository management and CI/CD pipelines.
 - Optimized deployment efficiency by refining server setups on Render servers and reducing costs by 35%.
- [\[Link\]](#) **Super Club Soccer (SCS)**
 - Developed a massively multiplayer turn-based soccer game for PC supporting over 20 players per match.
 - Architected the backend game engine in Node.js v14 using the Express.js framework with Socket.io.
 - Authored RESTful APIs in PHP 8.0 using the Aadya framework.
- [\[Link\]](#) **NJS2 CLI and Private Registry**
 - Contributed to the CLI tools for NJS2 framework, including a 'package' command for compiling multiple plugin packages across different Node.js versions.
 - Simplified NJS2 base installation processes to ensure seamless compatibility with clients' Node.js versions.
 - Designed a private registry for NJS2 plugins using a Docker image named Verdaccio, providing reliable version control similar to the NPM registry.
 - Integrated Microsoft Azure OAuth 2.0 plugins to ensure secure organisational access.

AUTHORED PUBLICATIONS:

- [\[Link\]](#) **First-Class JS (FCJS) Core** – *Open-source TypeScript backend framework*
 - Architected a modular TypeScript framework for rapid API development with built-in Decorators, DTO validation, Middleware, and auto OpenAPI generation.
 - Implemented route handling, WebSocket integration, and runtime metadata reflection, improving scalability and developer experience.
- [\[Link\]](#) **FCJS CLI** – *Command-line tool for FCJS framework*
 - Developed a CLI utility to initialize, configure, and scaffold projects using Node.js and TypeScript.
 - Automated framework setup with project template, reducing project bootstrapping time by over 60%.
- [\[Link\]](#) **cURL Runner** – *Lightweight Chrome extension for API testing*
 - Built a Chrome extension that executes and renders cURL requests directly in-browser with full response visualization.
 - Supported rendering of HTML, JSON, and file responses, providing an intuitive alternative to command-line tools like cURL and Postman.

EDUCATION:

- [\[Link\]](#) **B.Tech in Computer Science**, Vivekananda College of Engineering and Technology, Puttur, India