

# Amit Kumar Mandal

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## WORK EXPERIENCE

**IVY – (Entain) | DEVELOPMENT ENGINEER (FRONTEND & BACKEND TECHNOLOGIES) Hyderabad, IN | Aug 2021–Present**

- **Developed** a responsive web app using **React** with a mobile-like experience, implementing **SPA architecture** for reduced loading times and a smoother UI. Designed gameplay in levels with **sorted tournaments** by time and activity, rewarding players with **challenges and incentives** upon level completion.
- **Implemented** a coins system, widgets, and real-time leaderboards using **RTMS** in a gaming web application built with **Node.js and React**. Designed an intuitive menu with extended functionalities and integrated an **in-game chat platform** using **WebSockets** for seamless player communication. Enabled **fullscreen mode** for both **mobile and desktop** gameplay, enhancing user immersion.
- **Integrated** the latest version of **Google Analytics GA4** into a web-based gaming platform built with **React and Node.js**, tracking game events and player activity. Provided **actionable insights** for better game optimization and player engagement through event-driven data collection.
- **Created** a **Single Game Launch (SGL) URL** using **React and TypeScript**, ensuring a consistent UI across **desktop and mobile platforms** while reducing redundant development efforts. Applied **responsive design principles** for a seamless gaming experience.
- **Developed** a **gaming backoffice management system** using **Node.js, Express, and React with TypeScript**, integrating **MongoDB** for storing game configurations and player data. Implemented **role-based authentication** and provided real-time analytics using **WebSockets** for monitoring player activities.
- **Performed** thorough **cross-browser testing** on web applications built with **React, Redux, and TypeScript**, utilizing **React & Redux DevTools** for effective debugging. Ensured seamless functionality and optimal performance across different browsers and devices.

**GEEKSTER | Associate Engineer**

Gurugram, IN | Jan 2021- Aug 2021

- Collaborated on Geekster's web and mobile app for info and demo bookings. Worked on its messaging and calling system to expand reach

## EDUCATION

**Techno India Salt Lake, Kolkata**

West Bengal, IN

**BACHELOR OF TECHNOLOGY**

### SKILLS

JavaScript	ES5/ES6, Interpreter/Compiler/JIT Compiler, Asynchronous JavaScript (Promises, Async, Await, Threads, Concurrency), Closures, Currying, HOCs, etc.
Typescript	Type Safety, Interfaces, Type Aliases, Generics, Type Inference, Utility Types, Decorators, Namespaces, Modules
NodeJs	Event Loop, Non-blocking I/O, Asynchronous Programming (Callbacks, Promises, Async/Await), Streams & Buffers, File System (fs module), Worker Threads, HTTP & WebSockets, Express.js, Authentication (JWT, OAuth), CORS, Clustering, Load Balancing, Debugging & Performance Optimization, Microservices, REST APIs, mongoDb
ReactJS	Functional Components, Class Components, Lifecycle Methods, React Hooks, Custom Hooks, Virtual DOM, etc.
Frameworks & Libraries	Webpack, Parcel, Redux-Toolkit, Lodash, Tailwind CSS, Bootstrap, Material UI, Jest.
Others	HTML5, Web Accessibility, Semantic Elements, CSS/SCSS (Flexbox, Specificity, BEM Structure, Media Queries), Git/GitHub/GitLab/Bitbucket, Micro-Frontend, Config base UI.
Tools	VS Code, AWS, Figma, Zeplin, Jira.
Soft Skills	Problem Solving, Leadership, Communication Skills, Time Management, Adaptability.

## PROJECTS

**FOOD ORDERING APPLICATION**      JAVASCRIPT, REACTJS, REDUX-TOOLKIT, PARCEL, GIT/GITHUB, TAILWIND CSS, SASS

- Developed a food ordering app using the Swiggy API, enabling location-based restaurant listings, search and filtering, menu interactions (add, edit, delete items), and a shimmer UI for an enhanced user experience