

# AMAN SINGH PAYAL

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LinkedIn

GitHub

## Education

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### Graphic Era Hill University

Bachelor of Computer Applications (BCA) -  
Dehradun, Uttarakhand

2021 to 2024

CGPA - 6.68/10

### Raja RamMohan Roy Academy , Dehradun

Senior Secondary Education  
Dehradun, Uttarakhand

2020 to 2021

I.S.C - Percentage - 70.0%

### Raja RamMohan Roy Academy, Dehradun

High School Education  
Dehradun, Uttarakhand

2018 to 2019

I.C.S.E - Percentage - 65%

## Projects

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### AI-Powered Quiz Application | JavaScript, Google Gemini API, Firebase, CSS3

2026

- Engineered a real-time quiz generation engine using **Google Gemini API** with an automated **local JSON fallback** system, ensuring 100% service availability during API outages
- Implemented secure user authentication via **Firebase** (OAuth/Email) and developed a custom vanilla JS state management system for handling game logic, timers, and scoring without external frameworks
- Designed a responsive Single Page Application (SPA) featuring **Glassmorphism** UI and optimized CSS animations, achieving consistent 60fps performance on mobile devices

### Web Based Music Player | HTML5, CSS3, JavaScript

2025

- Developed a responsive music player featuring a **three-column layout** for separating library management, player controls, and playlists, ensuring a seamless user experience
- Implemented a dynamic playlist system allowing users to create custom lists, filter songs by **Genre**, and manage tracks with add/remove functionality
- Integrated a **Theme Toggle** feature using CSS variables to switch between Light and Dark modes, improving visual accessibility and user customization

## Achievements

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### JPMorgan Chase & Co. Software Engineering Job Simulation | Spring Boot, Apache Kafka, H2 Database **Jan 2026**

- Integrated **Apache Kafka** into a **Spring Boot** microservice to consume and deserialize high-volume transaction messages using a configurable topic
- Implemented transaction validation and persistence logic with **Spring Data JPA** and an **H2 SQL database**, ensuring atomic balance updates across user records
- Developed a REST endpoint for querying user balances and connected to an external **Incentive API** using **RestTemplate** to incorporate rewards into transactional workflows
- Verified system reliability using **Maven** test suites and debugger-driven inspection across message ingestion and database operations

### Deloitte Australia Cyber Job Simulation | Log Analysis, Incident Response, Cyber Security

**June 2025**

- Completed a practical job simulation involving the analysis of web activity logs to identify potential security threats and indicators of compromise
- Supported a client during a simulated cyber security breach by interpreting forensic data and recommending immediate response actions
- Investigated suspicious user activity and formulated comprehensive reports to guide mitigation strategies and resolve security incidents

## **Technical Skills**

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**Languages:** C++, Java, SQL, HTML5, CSS3, JavaScript

**Technologies/Frameworks:** Node.js, React.js, Bootstrap

**Developer Tools:** GitHub, VS Code, Postman

**Coursework:** Full Stack Web Development (Coding Ninjas) - *Currently Pursuing*

## **Spoken Languages**

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English, Hindi