

# Adan Saleem

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## Professional Summary

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Full-Stack Software Engineer with 4 years of experience delivering scalable, high-performance solutions across SaaS and e-commerce platforms. Skilled in modern **JavaScript/TypeScript** frameworks including **React.js**, and **NestJS**. Optimized database queries and indexing strategies, decreasing query times from seconds to milliseconds and improving data reliability.

## Work Experience

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### AmperorTech

Software Engineer

Aug 2022 – Present

- \* **Project Contribution:** Actively contribute to US-based projects such as WeMove-Ai, Booking Tool App, Eyfx and 8rain Station, utilizing advanced technologies like Nest.js, React.js, TypeScript, and JavaScript to deliver high-quality solutions.
- \* **Database Architecture:** Design and optimize SQL and NoSQL database schemas to support scalability and ensure efficient query performance under high-load conditions..
- \* **Backend Development:** Implement secure and scalable backend APIs using RESTful conventions, with a focus on JWT authentication and authorization mechanisms..
- \* **Front-End Development:** Create dynamic and interactive web applications using React.js, leveraging state management libraries such as Redux and Context API, and modern CSS frameworks like Tailwind CSS, Styled Components and MUI components to enhance UI/UX.
- \* **Webhook Integration:** Created a **Printful webhook** to notify the system of order status changes, ensuring real-time order updates.

### DevTrain

Software Engineer

Oct 2020 - July 2022

- \* Spearheaded the end-to-end development of web applications, utilizing modern technologies such as ReactJS for frontend and Mongo for backend to create a seamless and efficient user experience.
- \* Designed and built modular, reusable components and APIs, ensuring the application architecture is scalable, maintainable, and easily adaptable for future features.
- \* Integrated secure, high-performance databases to handle complex data operations, ensuring fast data retrieval and storage while maintaining data integrity.
- \* Optimized both client-side and server-side functionality, enhancing application speed and reducing load times for a superior user experience.

## PROJECTS

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### WeMove – AI-Powered Home Shifting Platform | *React, NestJS, PostgreSQL, AWS, TensorFlow*

- Developed an end-to-end web application to facilitate smart home shifting services using AI-based object detection
- Implemented image processing and object recognition using TensorFlow to automatically generate inventory reports from user-submitted room images
- Built RESTful APIs in NestJS for user management, scheduling, and real-time cost estimation
- Designed responsive and user-friendly frontend interfaces using React, ensuring seamless cross-device usability
- Ensured secure user authentication, role-based access, and data validation using JWT and PostgreSQL
- Integrated AWS for cloud-based image storage and report generation

### Booking Tool App | *React, NestJS, REST API, PostgreSQL, GCP*

- Developed a customizable booking platform allowing carriers to design and configure their applications according to specific business requirements
- Built RESTful APIs with NestJS to handle dynamic form creation, user management, and booking workflows
- Implemented a responsive React frontend with customizable components for carrier-specific branding and functionality
- Enabled carriers to generate and share unique application URLs with their end-users for seamless service booking
- Utilized PostgreSQL for efficient data storage and management of carrier configurations and booking data

- Deployed and managed services on GCP ensuring high availability and scalable performance

**Efyx – Car Repair & Maintenance Platform** | *React, NestJS, PostgreSQL, AWS*

- Developed a full-featured web platform for booking car repair and maintenance services, enabling real-time scheduling and service tracking
- Integrated GPS and live location APIs to assign nearby mechanics and provide users with accurate ETAs
- Implemented secure user authentication and role-based access control using JWT and PostgreSQL
- Built a responsive UI using React, focused on seamless booking flow and service transparency
- Created RESTful APIs in Node.js/NestJS to handle bookings, pricing logic, mechanic management, and service history
  
- Deployed and managed cloud services on AWS to ensure high availability and performance

**8rain Station – Sports Betting Platform** | *Node.js, Express.js, Express-Handlebars, MySQL, AWS*

- Developed a comprehensive sports betting platform supporting multiple sports including football, hockey, baseball, soccer, basketball, and tennis
- Implemented real-time odds calculation and betting system with Express.js backend and MySQL database
- Designed dynamic frontend using Express-Handlebars for server-side rendering of sports events and betting interfaces
- Built secure user authentication, wallet management, and transaction processing systems
- Integrated live sports data feeds for real-time game updates and score tracking across all supported sports
- Deployed on AWS cloud infrastructure with load balancing and auto-scaling for high traffic during major sporting events

SKILLS

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- Languages:** JavaScript, TypeScript, HTML-5/CSS
- Frameworks & Libraries:** React.js, Next.js, Node.js, NestJS, Express.js, Material UI, Tailwind CSS
- Database:** pgAdmin (PostgreSQL), MySQL, MongoDB
- APIs:** REST, WebSockets, OpenAI, Twilio, Stripe
- Cloud & DevOps:** AWS (S3), GCP (CloudBuild, App Engine), Docker
- Services & Tools:** Gitlab, GitHub, Trello, Asana, Postman, NodeMailer

EDUCATION

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<b>University of the Punjab</b> <i>B.S. Computer Science</i>	2020 - 2024 <b><i>Graduated</i></b>
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