

# Ramanpreet Kaur

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## Objective:

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Software Engineer with expertise in both Frontend and Backend Development, along with hands-on experience in Cloud Technologies. Proven track record of delivering impactful solutions across industries including Healthcare, E-commerce, and Research. Adept at collaborating with cross-functional teams to design and implement scalable, user-centric, and high-performance systems that tackle complex real-world challenges. Passionate about data-driven decision-making and continuously expanding knowledge in Data Engineering. Seeking to leverage a strong technical foundation and innovative mindset to contribute to cutting-edge data solutions and drive impactful business outcomes.

## Professional Experience

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### Data Analyst | 2DOT2 Inc., San Diego, CA

Jan 2025 – Present

- This project is about Integrating data from four sources to create a new datasource, collaborating with the team to collect, map, and document data for the new database.
- Translated functional specifications into technical specifications to guide efficient development and planning.
- Developed Source-to-Target Mappings (STTM) for EMR datasets (Coverage, Demographic, Address), mapping data from raw to refined sources.
- Created and maintained metamodels to standardize key data domains and improve consistency across datasets.
- Validated, reconciled, and tested data across layers (ODS to Lakehouse) using SQL (Athena, Redshift, DBeaver) and tools like Google Sheets and Excel.
- Designed data flow diagrams with draw.io, visualizing end-to-end data pipelines.
- Optimized SQL queries, improving performance by rebuilding logic and merging data from various sources.
- Authored business reports to provide insights into data design and flow for cross-functional teams.
- Collaborated with business and engineering teams using GitHub and JIRA for task management, issue tracking, and documentation.
- Leveraged SharePoint and Confluence for version-controlled documentation, including data mappings, ETL processes, and workflows.
- Managed and optimized large-scale datasets using Apache Iceberg, improving query efficiency by 30% and reducing storage costs by 25% in cloud environments.

### Software Engineer | Platerate, New York(Remote)

Jan 2022 – Jul 2023

- Developed a full-stack, restaurant-focused web application to streamline the dining experience using React, TypeScript, Node.js, and MySQL in agile environment.
- Built scalable and responsive user interfaces, improving usability and operational efficiency by 30%
- Designed and optimized relational schemas in MySQL, improving query performance by 30% through indexing, query optimization, and database tuning.
- Created and maintained RESTful APIs with Express.js and Node.js, ensuring secure and reliable data exchange between frontend and backend systems.
- Integrated Instagram Graph API using Axios to automate media publishing, increasing social media engagement by 30% and referral traffic by 40%.
- Troubleshooted backend issues by analyzing AWS EC2 logs via SSH and debugging with LogRocket, decreasing push notification failure rates by 95%.

- Applied advanced debugging techniques, log analysis, and root cause resolution strategies to maintain high application availability and user satisfaction.

### **React Developer | Nextpage IT, Chandigarh**

**Jul 2021 – Dec 2021**

- Engineered dashboards for healthcare management systems using React, TypeScript, and component-based architecture.
- Developed 20+ responsive and reusable UI components using Atomic Design, reducing UI build time by 40% and accelerating feature delivery by 30%.
- Collaborated with UI/UX and backend teams to develop and integrate REST APIs; used Swagger for documentation and Postman for API testing.
- Ensured seamless team collaboration and CI/CD readiness using GitLab for version control and branch management.

### **React.js Intern | Hathlogic LLC, Chandigarh**

**Jan 2021 – Jun 2021**

- Built an interactive, accessible corporate website using React, Bootstrap, and responsive design principles, leveraging CSS media queries enhancing cross-device compatibility.
- Implemented i18n internationalization using React Context API and i18next, enabling support for 5 new languages and expanding global reach by 15%.
- Improved performance by 30% through lazy loading (LazyLoad NPM) and code splitting strategies.

### **Technical Skills**

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- **Programming Language:** Javascript, HTML/CSS, Python, SQL, MongoDB
- **Cloud & BI Tools:** AWS(Athena, Redshift), Apache, Azure, Power BI
- **Collaboration Tools:** JIRA, ServiceNow, Confluence, draw.io
- **Version Control & File Sharing:** GitHub, SharePoint, OneDrive
- **MS Office Suite:** Excel, Word, PowerPoint, Outlook, Teams

### **Academic Projects**

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#### **Database Design and Management**

- Designed and implemented a relational database schema using MySQL Server.
- Developed and executed SQL scripts to create tables and perform data insertion efficiently.
- Crafted complex SQL queries to retrieve and manipulate data across multiple tables for reporting and analysis purposes.

#### **Data-Driven Analysis of Socioeconomic Factors Using Excel**

- Collected and cleaned a publicly available dataset from Data.gov in .csv format to explore socioeconomic trends.
- Conducted correlation matrix analysis and visualized key relationships using scatterplots in Excel, identifying strongest variable associations.
- Formulated and answered a research question using 2–4 highly correlated variables to derive insights and tell a data-driven story.

#### **UX/UI Analysis and Enhancement Proposal for KPBS Website**

- Conducted a comprehensive comparative analysis of KPBS and KQED websites, focusing on user experience design.
- Identified key usability gaps in the KPBS website through heuristic evaluation and benchmarking.
- Proposed targeted UX enhancements to improve navigation, accessibility and visuals on the KPBS platform.

### **Education**

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- **Master's in Information Systems and Technology**  
Alliant International University, San Diego, CA | May 2025
- **Bachelors of Engineering, Electronics and Communication**  
Panjab University, Chandigarh, India | Jun 2020