Ramanpreet Kaur

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Objective

Software Engineer with 3+ years of experience in Frontend Development**,** Backend Development, and Cloud technologies, specializing in building scalable distributed systems and cloud-native solutions across industries like E-commerce**,** healthcare, and research**.** Committed to driving collaborative innovation in building robust, scalable, and user-centric solutions to address complex real-world challenges.

Technical Skills

- **Languages & Frameworks**: JavaScript, TypeScript, Next.js, React, AngularJS, Node.js, Express.js
- **Cloud Platforms**: AWS (EC2, S3), Athena
- **Web Development**: HTML, CSS, RESTful APIs, Redux
- **Databases**: MySQL, MongoDB
- **Testing & Version Control**: Jest, React Testing Library, GitHub, Jenkins
- **UI/UX Libraries**: Bootstrap, Tailwind CSS, Styled Components, jQuery

Professional Experience

Software Engineer | 2DOT2 Inc. | San Diego, CA   **Jan 2025 – Present**

- **Designed and implemented a scalable**, component-based **Health Insurance web application** using React, Next.js, and TypeScript, improving operational efficiency and enabling the platform to handle increased load with 30% better scalability and system reliability.
- **Implemented dynamic and reusable user interfaces** using JavaScript, HTML and CSS(CSS modules and styled-components, adhering to mobile-first and accessibility standards, which led to a 25% increase in user engagement.
- **Created and optimized SQL queries** to support application functionality, applying indexing and query optimization strategies, which improved data retrieval speed by 50%.
- **Deployed production-ready applications** using **AWS** (EC2, S3, CloudFront), implementing CDN and caching techniques that reduced page load times by 60% in collaboration with cross-functional teams.
- **Maintained a clean, scalable codebase** using ESLint, Prettier, and TypeScript, which reduced code review time by 20% and improved team onboarding efficiency.
- **Automated deployments and test** pipelines using Jenkins, streamlining **CI/CD** processes and cutting release cycles by 50%.
- **Debugged and resolved** front-end and back-end issues using browser developer tools and structured logging, leading to a 35% reduction in user-reported bugs.

Software Engineer | Platerate | New York (Remote)   **Jan 2022 – Jul 2023**

- **Developed a full-stack** restaurant web application in an Agile environment, streamlining the dining experience and reducing user checkout time by 30%.
- **Built dynamic user interface** using React and TypeScript, enhancing usability and operational efficiency by 30% for 300+ users, with intuitive workflows for restaurant discovery, cart management, and real-time order tracking.
- **Optimized SQL queries** and **restructured** MongoDB hybrid DB model**,** implementing indexing and query refactoring to **reduce query times by 30%**, resulting in faster data retrieval and enhanced real-time analytics.
- **Created and maintained RESTful APIs** with **Express** and **Node**, ensuring secure and reliable data exchange between frontend and backend systems, improving data delivery speed by 40% and reducing API failure rates by 90%.
- **Collaborated with cross-functional teams** for deploying services on **AWS** infrastructure, including **EC2** for compute, **S3** for storage and **CloudWatch** for performance monitoring, achieving a **50% reduction in manual deployment time.**

- Wrote **unit and integration tests** using Jest and React Testing Library, increasing test coverage and reducing production bugs by 40%.
- **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**

- **Designed and implemented** a microservices-based Healthcare management Dashboard using **React**, **TypeScript**, managing data for **2,500+ hospital staff** and **25,000+ entries** efficiently.
- **Developed responsive**, reusable UI components using Atomic Design principles and ensured WCAG compliance, reducing UI build time by 40% and accelerating feature delivery by 30%.
- **Collaborated with cross-functional teams**, including product and backend engineers, to design and implement scalable backend features and APIs, enhancing data flow reliability and supporting seamless user interactions.
- Ensured seamless team collaboration and **CI/CD** readiness using Gitub for version control and branch management.
- Developed interactive web interfaces with **HTML**, **CSS**, and **JavaScript**, increasing user engagement by **20%** through an intuitive and responsive design.

Frontend Developer | Hathlogic | Chandigarh   **Jan 2021 – Jun 2021**

- **Developed an interactive**, **WCAG-compliant** corporate website using **React**, **Bootstrap**, and **responsive design** principles, increasing user retention by **25%** and enhancing cross-device compatibility.
- Implemented i18n internationalization using **Redux** and i18next, enabling support for 5 new languages and expanding global reach by **15%.**
- **Improved website speed and** performance by 30% through lazy loading and code splitting strategies, optimizing resource loading and user experience.
- **Collaborated with UI/UX and backend teams** to develop and integrate REST APIs; used Swagger for documentation and Postman for API testing, reducing API response time by 15%.

Academic Projects

AI Summarizer Tool
- Developed an AI-based summarizer tool using React and Tailwind CSS, allowing users to input content and receive a concise, AI-generated summary.
- Integrated OpenAI APIs to power the content summarization, delivering accurate and contextually relevant summaries for a wide range of text types.
- Automated deployment with GitHub Actions and hosted using AWS Athena, ensuring fast and reliable updates.

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.

UX/UI Analysis and Enhancement Proposal for KPBS Website
- Conducted comprehensive comparative analysis of KPBS & 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.

Chat Interface with Python
- Developed a Tkinter-based GUI chat client in Python with real-time message sending/receiving via TCP sockets, improving user engagement through an intuitive interface.
- Integrated online user tracking and display functionality, enhancing user visibility and collaboration.
- Built a GUI-based file downloader with URL input, customizable save locations, progress tracking, and robust error handling, increasing reliability and user satisfaction.

Education

- **Master's in Information Systems and Technology**   Aug 2023 - May 2025
  Alliant International University (GPA: 3.81/4.0)   San Diego, CA
- **Bachelors of Engineering, Electronics and Communication**   Jul 2016 – Jun 2020
  Panjab University (GPA: 7.88/10.0)   Chandigarh, India