# Manpreet Singh Rana

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## SUMMARY:

Full stack software developer with expertise in front-end and back-end development, experienced in leading cross-functional teams.

## TECHNICAL SKILLS:

- **Programming Languages**: JavaScript, TypeScript, Java, Python, HTML, CSS, Erlang
- **Frameworks**: React, Spring Boot, Node.js, Express.js, Next.js, SpringBatch, Angular
- **Cloud & DBMS**: Amazon Web Services (AWS), GCP, MongoDB, MySQL, Cassandra, PostgreSQL
- **Other Technologies**: Microservices, REST APIs, WebSocket, OAuth, Docker, Kubernetes, ELK Stack
- **Tools**: GIT / GitHub (Version Control), JIRA, Jenkins, Postman, Confluence, Travis, Agile Methodology
- **Software Engineering**: Problem Solving, Data Structures and algorithms, Debugging, Design Patterns, Code Optimization

## PERSONAL PROJECTS:

[Link] **E-commerce Store with Admin Dashboard and CMS** | April 2023 - Sept 2023

**Tech Stack:** Next.js 13, React, Tailwind CSS, Prisma, MySQL, Shadcn UI, Stripe, TypeScript

- Developed a multifaceted E-Commerce Admin Dashboard & CMS using Next.js 13, React, and Tailwind for the Admin interface and an integrated E-commerce Store.
- Created a versatile CMS capable of managing multiple vendors/stores, each with its own API routes.
- Implemented robust content management, including category, product, filter, and billboard creation, with powerful search and pagination features resulting in a 35% increase in productivity.
- Provided data insights, including revenue visualization, and facilitated order creation with secure authentication.
- Integrated Stripe for seamless payment processing.

[Link] **MyAirbnb** | Jan 2023 - April 2023

**Tech Stack:** Next.js13, TypeScript, Prisma, MongoDB, NextAuth

- Developed a feature-rich Airbnb clone using Next.js, TypeScript, and NextAuth for secure user authentication.
- Created a user-friendly interface, and advanced property search, favoriting, and reservation management capabilities, enhancing user engagement.
- Implemented efficient data storage and management with Prisma and MongoDB for a seamless user experience.

**Next Gen Restaurant** | Jan 2021 - Jun 2021

**Tech Stack:** AWS (Amazon Web Services), IoT Sensors, AWS SageMaker, AWS QuickSight, AWS EC2, AWS S3, AWS Lambda.

- Developed software components for an Energy Management System (EMS) tailored for a chain of restaurants, utilizing IoT technology and hosted on Amazon Web Services (AWS).
- Engineered real-time analytics with SageMaker, resulting in a 30% reduction in energy consumption through predictive maintenance and anomaly detection algorithms.
- Designed and implemented an intuitive dashboard interface on AWS QuickSight, providing real-time insights and recommendations to restaurant staff..
- Achieved $70,000 in annual energy savings and operational efficiencies, leveraging AWS services such as EC2, S3, Lambda, and QuickSight to optimize resource utilization and promote sustainability initiatives.

**EXPERIENCE:**

**Software Engineer |** Infosys, Jan 2021 - Feb 2022

**Tech Stack**: Spring Batch, Java, CSRF protection, Authentication, Authorization, Pagination techniques

- Spearheaded the development of a comprehensive job resulting in a 75% reduction in fee computation time.
- Implemented a robust hierarchy-level money summarization feature enabling a 50% increase in data accuracy.
- Designed and deployed customizable daily reports for end users, leading to a 40% improvement in data accessibility and communication effectiveness, facilitating informed decision-making.
- Optimized project efficiency by automating multi-threading processes, resulting in a 95% reduction in job completion time, from over 6 hours to just 30 minutes.
- Enhanced end-user experience through the implementation of security measures, such as CSRF protection, authentication, and authorization, while improving page performance by 60% through pagination techniques.

**Systems Engineer |** Infosys, July 2018 - Dec 2020

**Tech Stack:** Python, shell scripts, Autosys, Daemon, Orchestrator, Darwin, Teradata, Oracle, Vertica, MySQL, Cassandra

- Executed the cleaning and transformation of raw data from multiple sources using Python and shell scripts.
- Aggregated data into semantic layer tables, facilitating improved data insights and enabling informed business decisions.
- Spearheaded the implementation of a data warehousing solution using Autosys, Orchestrator, and Darwin, resulting in a 50% improvement in data accessibility and reporting capabilities.

**EDUCATION:**

**Concordia University, Montreal - Canada |** Master of Applied Computer Science | Sep 2022 - April 2024

**Punjabi University, Patiala - India |** Bachelor of Technology, Computer Science and Engineering | Jun 2014 - June 2018