

# Amanjot Singh

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## SKILLS

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**Languages:** JavaScript, TypeScript, C/C++, Golang

**Frontend:** React, Redux, Astro, HTML, CSS, Tailwind, MUI

**Backend:** Node.js, Express.js, TypeScript, API Gateway, Autoscaling, Load Balancers, Message Queues & Streams

**Databases:** MongoDB, MySQL, Redis

**DevOps & Tools:** Linux, Git, GitHub Actions, RabbitMQ, Docker, Kubernetes, AWS, Vim

## EXPERIENCE

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### Software Developer Intern

Feb 2024 – June 2024

*Digital Back Office*

*London, UK*

- Developed a user-friendly website using **Astro**, significantly reducing load times by 40% and increasing user interactions by 25%.
- Contributed to the development of a next-generation data analytics all-in-one platform, **Dataflow**.
- Built the UI from scratch using **React** and **Material-UI**, adhering to best coding practices and modular structure resulting in seamless collaboration.
- Collaborated with the backend **Python** team to ensure seamless integration and optimal backend system structure.
- Assisted in **DevOps** tasks to gain a comprehensive understanding of system workflows and integration of tools like **jujterhub**, **superset**, **airflow** and more.

## PROJECTS

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### Flight Booking System | *Javascript, Node, Express, MySql, Sequelize, RabbitMQ, Docker*

[Github](#)

- Designed and implemented a **microservice** architecture for a flight booking system.
- Integrated **SQL transactions**, **cron jobs**, and **message queues** for robust functionality and automation.
- Secured the system with **JWT** authentication, **idempotency** keys, **payment** setup and **role-based authorization** for secure access control.
- Containerized and deployed the application on **AWS** with auto-scaling for high availability and performance opt.

### Vyzon: Programming Language | *Interpreter, Compiler, Tokenizer, Parser, Javascript, React*

[Github](#) | [Live](#)

- Designed and implemented a custom programming language supporting multiple programming paradigms.
- Developed a **Interpreter**, **Compiler** and a robust **tokenizer** and **parser** for seamless code execution.
- Crafted a user-friendly syntax adhering to industry best practices.

### Redis Implementation | *Javascript, Tokenizer, Parser*

[Github](#)

- Developed a **Redis-like** distributed key-value store in javascript, supporting key functionalities such as **SET**, **GET**, **INFO**, **ECHO** and more, adhering to RESP protocol.
- Implemented **error handling**, **response generation**, and advanced features like **concurrency** management, key **expiration**, and **handshaking** protocols for **master-replica** communication.

## EDUCATION

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### Meerut Institute of Engineering and Technology

*Bachelor of Technology in Computer Science - ( 7.4 GPA)*

U.P, Meerut, India

*Aug 2021 – June 2025*

### Vardhman Academy

*Intermediate and High School - (90.5% & 92.1%)*

U.P, Meerut, India

*Mar 2018 & Mar 2020*

## ACHIEVEMENTS

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### Online Coding Platforms

*Leetcode and Codeforces*

- Rated **1148** on Codeforces.
- Rated **1714** on LeetCode.