

Amanjot Singh

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SKILLS

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

Database: MongoDB, MySQL, Redis

Developer Tools: Linux, Git, GitHub Actions, Docker, Kubernetes, Vim

EXPERIENCE

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 **juyterhub**, **superset**, **airflow** and more.

PROJECTS

Flight Booking System | *Javascript, Node, Express, MySql, Sequelite, 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

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

Online Coding Platforms

Leetcode and Codeforces

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