Amanjot Singh

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SKILLS

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

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

Backend: Go, Node.js, Microservices, API Gateway's, Load Balancers, Message Queues & Streams, WebSockets, Rest

Databases: MongoDB, MySQL, PostgreSQL, Redis

DevOps & Tools: Git, GitHub Actions, RabbitMQ, Docker

Other: Data Structures and Algorithms, Linux, Vim

EXPERIENCE

Intern   Jan 2025 – Present
Deloitte   *Gurgaon, India*
- Part of the core development team working on emerging ERP solutions at Deloitte, focused on **Microsoft Dynamics 365 (D365)**.
- Undergoing developer training and contributing to the development of internal tools and extensions for D365.
- Collaborating with the **Generative AI team** to build in-house solutions that assist developers by automating parts of the development process within ERP workflows.
- Working on AI-powered tools aimed at improving developer productivity and reducing repetitive coding tasks.

Software Developer Intern   Feb 2024 – July 2024
Digital Back Office   *London, UK*
- Built a responsive and modular UI from scratch for the data analytics platform **Dataflow** using **Astro**, **React**, and **Material-UI**, reducing load time by 40% and boosting engagement.
- Collaborated with the **Python** backend team for smooth integration and supported **DevOps** tasks involving tools like **JupyterHub**, **Superset**, and **Airflow**.

PROJECTS

Vyzon: Programming Language | *Interpreter, Compiler, Tokenizer, Parser, Javascript, React*   GitHub | Live
- Created a custom programming language with support for multiple paradigms and clean, user-friendly syntax.
- Built core components including **interpreter**, **compiler**, **tokenizer**, and **parser**.

CHIP-8 Emulator | *Go, SDL2, Emulator, CPU*   Github
- Built a CHIP-8 emulator in **Go**, covering **CPU**, **opcode decoding**, and **timers**.
- Used **SDL2** for graphics rendering, input handling, and achieving smooth **60 FPS**.
- Structured components for modularity in input, display, and debugging.

Cryptocurreny Matching Engine | *C++, Cmake, Make, Crow, Rest, Websockets, Data Structures*   Github
- Developed a high-performance C++ cryptocurrency matching engine implementing **REG NMS-inspired price-time priority** and internal order protection.
- Implemented core order types: **Market**, **Limit**, **IOC**, and **FOK**, with real-time **Best Bid & Offer (BBO)** updates.
- Engine executes trades accurately and enforces **FIFO** at each price level, preventing trade-throughs via strict price-time matching.
- Built **REST and WebSocket APIs** for order submission, market data dissemination (L2), and real-time trade execution feed.

Flight Booking System | *Javascript, Node, Express, MySql, Sequelite, RabbitMQ, Docker*   Github
- Designed a **microservices**-based flight booking system with SQL transactions and **cron jobs**.
- Implemented **RabbitMQ**, **JWT**, **idempotency**, and **RBAC** for automation and security.
- Dockerized and deployed on **AWS** with autoscaling for high availability.

EDUCATION

Meerut Institute of Engineering and Technology   U.P, Meerut, India
Bachelor of Technology in Computer Science   *Aug 2021 – June 2025*

Vardhman Academy   U.P, Meerut, India
Intermediate and High School - (90.5% & 92.1%)   *Mar 2018 & Mar 2020*