Harcharanpreet Singh

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WORK EXPERIENCE

Amdocs (Software Development Engineer) - Gurgaon, India   Nov. 2024 - Present

- Independently developed **TechMate AI**, an internal AI-powered automation system for **Microsoft Teams** using **LangChain, ChromaDB (RAG) & AutoX LLM,** reducing repetitive queries & cutting IT response time by **30%.**
- Integrated **Power Automate Flows** with Teams to enable real-time query resolution, reducing manual expert intervention by **40%** and improving query turnaround time.
- Built **SharePointRAGLoader** to process enterprise documents, enabling contextual AI responses and decreasing manual document lookup time by **50%.**
- Maintained backend services for **Telstra**, a major telecom client, using **Java and Spring Boot.**
- Modified and enhanced existing **RESTful** APIs, contributing to backend service improvements & system efficiency.
- Collaborated with cross-functional teams to integrate backend solutions with frontend & third-party services.

Upaav (Founding Engineer) - Remote   June 2024 - Oct. 2024

- Independently developed an **Atlassian Jira** plugin end-to-end, reducing operational overhead costs by **20–30%**
- Designed and built UI with **React.js** for seamless task visualization and time logging workflows.
- Developed backend using **Node.js** and **Atlassian Forge storage**, achieving **100% secure session handling** by leveraging native site authentication without separate auth layer.
- Implemented key features including work logging in hours/minutes, a dynamic calendar interface, and real-time ticket displays based on user activity data pulled from Jira.
- Delivered MVP in under **10 weeks**, enabling stakeholder demos, early onboarding, & shaping product roadmap.

XcitEducation Worldwide (Subject Matter Expert) - Remote   Aug. 2022 - Sept. 2022

- Mentored **60+** B.Tech students in Data Structures & Algorithms,providing advanced **C++** programming guidance
- Resolved complex queries for **80+ students**, leveraging strong communication and problem-solving skills to drive learning outcomes.

PROJECTS

- **PayPocket** | *React.js, Tailwind CSS, Node.js, Express.js, MongoDB, Mongoose, JWT, Zod, Postman, Git* (GitHub)
  - Built a secure **Paytm-like** money transfer app with **JWT authentication** & robust account balance management.
  - Implemented **RESTful APIs** for **user registration, login, profile updates, and secure money transfers** with **MongoDB** transactions to ensure atomicity and consistency.
- **Movie Arena** | *HTML, CSS, Javascript, React.js, Redux, Firebase, Stripe* (GitHub)
  - Designed a responsive website similar to **Netflix**, implementing user-centric features like **Signup/Login, Home Browsing, and Profile screens** for an engaging user experience.
  - Leveraged **Firebase** for seamless **user authentication**, robust database management, and efficient hosting.
  - Integrated **Stripe API** to ensure secure and efficient payment processing for enhanced functionality.
- **Rain Vine** | *HTML, CSS, Javascript, React.js* (GitHub)
  - Developed a web application delivering real-time weather updates for user-specified locations.
  - Incorporated **OpenWeatherMap API** to seamlessly fetch & display accurate weather data for desired regions, enhancing the application's functionality & user experience.

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, JavaScript, TypeScript
Libraries and Frameworks: React, Next.js, Tailwind CSS, Prisma ORM, Hono, JWT, Node.js, Zod, Langchain
Databases: Redis, MongoDB, PostgreSQL, Firebase, Aiven, Neon, ChromaDB
Tools & Platforms: Docker, Kubernetes,Git, Postman, Atlassian Jira, AWS, Connection Pooling, Vercel
Subjects: Operating Systems, Computer Networks, Object Oriented Programming, Database Management Systems

EDUCATION

Guru Nanak Dev University   Amritsar, Punjab

Bachelor of Technology, Electronics and Communication Engineering — (CGPA - 8.13/10) Aug. 2020 - May 2024

ACHIEVEMENTS

- Solved **1100+** coding questions (Max. rating **1705**) on **Leetcode**, maintaining a **450+ days** streak.**(Link)**
- Secured **Global rank 1855** in Leetcode BiWeekly contest 151
- Secured the **2nd position** in the **12th class among 200+ students**