

Prem Kumar Singh

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EDUCATION

- Vellore Institute Of Technology** Vellore, India
Bachelor of Technology - Information Technology; CGPA: 9.55 August 2021 - June 2025
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Computer Networks, Database Systems

SKILLS SUMMARY

- Languages:** C++,Python, Javascript, Typescript
- Frameworks:** ReactJS, React Native, ExpressJS, NodeJS, Bootstrap, TailwindCSS, Flask
- Tools:** GIT, Postman
- Databases:** SQL, MongoDB, Firestore, Prisma
- Soft Skills:** Leadership, Event Management, Writing, Time Management

EXPERIENCE

- Clinigo** Certificate
Backend Developer Intern Aug 2023 - Nov 2023
 - FHIR:** I played a key role in developing a data conversion package in Javascript for medical data into FHIR(Fast Healthcare Interoperability Resources) format, meeting NRCES standards. This project demanded a deep understanding of healthcare data structures and FHIR specifications.
- Valsco Technology** Certificate | LOR
Frontend Web Developer Intern Aug 2023 - Sep 2023
 - Team Lead:** Frontend Developer and Team Lead at Valsco Tech, guided and lead a team of interns in the successful development and delivery of client-side solutions for our clients. Developed Frontend in ReactJs, TailwindCSS and MaterialUI for our clients.

PROJECTS

- TerraChat** Hosted Link
ReactJs, TailwindCSS, PrismaORM, MongoDB, Azure AI, SocketIO, Typescript
 - Developed TerraChat, a multilingual chat application leveraging ReactJs, TailwindCSS for UI, and Azure Cognitive AI for instant language translation, enhancing global communication. Utilized SocketIO for real-time messaging, alongside PrismaORM and MongoDB for data management, with TypeScript ensuring code reliability and reduced errors.
- SkillTrekker** Hosted Link
ReactJs, Material UI, Firebase Auth, Javascript, Firestore, Echarts
 - Crafted SkillTrekker, a web app providing technical domain roadmaps, with an interactive ReactJs and Material UI frontend, Firebase Auth for secure login, and Firestore for data management. Features include Apache ECharts for user progress visualizations, fostering better engagement and motivation in learning paths.
- NeuroAssist** Github Link | Hosted Link
ReactJs, TailwindCSS, Flask, XGBoost, Scikit-learn, Modin, Intel Developer Cloud(IDC)
 - Developed NeuroAssist at Intel BoltHack2.0 with a 4-member team, an innovative diagnostic tool for neural diseases in children like ADHD, OCD, or Dyslexia, combining GenAI language processing and ML algorithms for initial assessments. Features include ReactJs and TailwindCSS frontend, Flask backend, and Intel-optimized ML libraries for precise diagnoses. It also recommends therapy videos upon detection, enhancing patient support. Deployed on Intel Developer Cloud (IDC) for global accessibility.
- HackBattle** Github Link | Hosted Link
ReactJs, TailwindCSS, MongoDB, NodeJs, ExpressJs
 - Engineered HackBattle's frontend for IEEECS-VIT's hackathon, attracting over 1000+ attendees, as part of a 4-member team. Utilized ReactJs and TailwindCSS for an engaging interface. Implemented seamless registration and dynamic team functionalities via APIs. Collaborated with a 2-member backend team to develop efficient APIs using Express and MongoDB for data management.

PUBLICATIONS

- Book: Artificial Intelligence and Voice Assistants:** Royal Book Publishing ISBN: 9789391131296 June 2022
 - Contributed a chapter titled: Voice Assistant The Future Of Artificial Intelligence (pages 235-243)
- Article: Revolutionizing Neural Disorder Diagnosis with NeuroAssist: The Power of GenAI and Machine Learning:** Feb 2024 Link
 - Co-authored a Medium article with a team of four on NeuroAssist, the product we developed, highlighting its revolutionary approach to neural disorder diagnosis using GenAI and machine learning.

CERTIFICATIONS

- Microsoft Certified: Azure Administrator Associate (AZ-104)** Certificate
- AWS Certified Cloud Practitioner (CLF-02)** Certificate