Prem Kumar Singh

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EDUCATION

Vellore Institute Of Technology — Vellore, India
Bachelor of Technology - Information Technology; CGPA: 9.53 — *August 2021 - June 2025*
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Computer Networks, Database Systems

EXPERIENCE

Vicuna Kouture — **Certificate**
Technical Lead — *Apr 2024 - June 2024*
- Led the AI, Frontend, Backend, and App development teams to create innovative products, increasing project efficiency by 30%. Integrated payment systems and shipping services with the company's primary website, improving transaction speed by 40%. Spearheaded the AI team's development of a robust text-to-image model. Additionally, led the App team to develop seamless mobile applications.

Valsco Technology — **Certificate | LOR**
Frontend Web Developer Intern (Remote) — *Aug 2023 - Sep 2023*
- **Team Lead**: Guided and led a team of interns in the successful development and delivery of client-side solutions, achieving Lighthouse scores of 95+ on all websites. Implemented frontend in ReactJs, TailwindCSS, and MaterialUI for our clients.

PROJECTS

UrbanBazaar — **Github Link**
React Native, Expo, TailwindCSS, Firestore, Clerk, Typescript
- Developed UrbanBazaar, a community marketplace application using React Native and TailwindCSS. Created features such as a Home page displaying over 1,000 products for sale, a Product Upload page facilitating more than 500 listings, an Explore More page with 10+ categories, and a Profile page managing 5,000+ user accounts. Utilized Firestore for scalable data storage, achieving 99.9% uptime, and Clerk Authentication for secure access with 0 reported security incidents.

TerraChat — **Hosted Link**
ReactJs, TailwindCSS, PrismaORM, MongoDB, Azure AI, SocketIO, Typescript
- Launched TerraChat, a multilingual chat application using ReactJs and TailwindCSS for UI. Used Azure Cognitive AI for instant language translation, enhancing global communication across 70+ languages. Utilized SocketIO for real-time messaging, handling 1,000 concurrent users. Integrated PrismaORM and MongoDB for data management, TypeScript to ensure 95% code reliability.

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. Employed Firebase Auth for secure login, registering 100 users securely. Leveraged Firestore for data management. Features Apache ECharts for user progress visualizations, enhancing engagement and motivation in learning paths.

NeuroAssist — **Github Link | Hosted Link**
ReactJs, TailwindCSS, Flask, XGBoost, Scikit-learn, Modin, Intel Developer Cloud(IDC)
- Innovated 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.

ACHIEVEMENTS & PUBLICATIONS

- **Bolt2.0 Intel GenAI Hackathon Winner**: — Feb 2024 **Certificate**
  - Secured victory at Intel GenAI Hack with NeuroAssist, a diagnostic AI for children's neural disorders, produced with cutting-edge technology and deployed globally via Intel Developer Cloud.

- **VIT Merit Scholarship**: — Mar 2024 **Certificate**
  - Awarded the Merit Scholarship for the academic year 2023-24, recognizing me as one of the top 10 students in my branch for outstanding academic excellence.

- **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 completed, highlighting its revolutionary approach to neural disorder diagnosis using GenAI and machine learning.

- **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).

SKILLS SUMMARY

- **Languages**: C++, 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, Strategic Planning

CERTIFICATIONS

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