

# Prem Kumar Singh

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EDUCATION		
•	<b>Vellore Institute Of Technology</b>	Vellore, India
	<i>Bachelor of Technology - Information Technology; CGPA: 9.53</i>	Aug 2021 - Jun 2025
	<i>Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Computer Networks, Database Systems</i>	

EXPERIENCE		
•	<b>Vicuna Kouture</b>	<b>Certificate</b>
	<i>Technical Lead</i>	Apr 2024 - Jun 2024
•	◦ Led the AI, Frontend, Backend, and App development teams to create innovative products, increasing project efficiency by 30%. Incorporated payment systems and shipping services with the company’s primary website, optimizing 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.	
	<b>Valsco Technology</b>	<b>Certificate   LOR</b>
•	<i>Frontend Web Developer Intern (Remote)</i>	Aug 2023 - Sep 2023
	◦ <b>Team Lead:</b> 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		
•	<b>UrbanBazaar</b>	<b>Github Link</b>
	<i>React Native, Expo, TailwindCSS, Firestore, Clerk, Typescript</i>	
•	◦ 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.	
	◦ Explore More page with 10+ categories, and a Profile page managing 5,000+ user accounts. Employed Firestore for scalable data storage, achieving 99.9% uptime, and Clerk Authentication for secure access with 0 reported security incidents.	
•	<b>TerraChat</b>	<b>Hosted Link</b>
	<i>ReactJs, TailwindCSS, PrismaORM, MongoDB, Azure AI, SocketIO, Typescript</i>	
•	◦ 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.	
	◦ Harnessed SocketIO for real-time messaging, processing 1,000 concurrent users. Integrated PrismaORM and MongoDB for data management, TypeScript to ensure 95% code reliability.	
•	<b>SkillTrekker</b>	<b>Hosted Link</b>
	<i>ReactJs, Material UI, Firebase Auth, Javascript, Firestore, Echarts</i>	
•	◦ 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, handling over 100 user records. Features Apache ECharts for user progress visualizations, enhancing engagement and motivation in learning paths with a 25% increase in user activity.	
•	<b>NeuroAssist</b>	<b>Github Link   Hosted Link</b>
	<i>ReactJs, TailwindCSS, Flask, XGBoost, Scikit-learn, Modin, Intel Developer Cloud(IDC)</i>	
•	◦ 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 a ReactJs and TailwindCSS frontend, a Flask backend, and Intel-optimized ML libraries for precise diagnoses. Recommends therapy videos upon detection, enhancing patient support by 30%. Deployed on Intel Developer Cloud (IDC) for global accessibility, reaching users in over 50 countries.	

ACHIEVEMENTS & PUBLICATIONS		
•	<b>VIT Merit Scholarship:</b>	Mar 2024 <b>Certificate</b>
	◦ Awarded the Merit Scholarship for the academic year 2023-24, recognizing outstanding academic excellence as one of the top 10 students in the branch.	
•	<b>Bolt2.0 Intel GenAI Hackathon Winner:</b>	Feb 2024 <b>Certificate</b>
	◦ Secured 1st place 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.	
•	<b>Article: Neurological Disorder Diagnosis using Intel AI Solutions: Developer Spotlight:</b>	Sep 2024 <b>Link</b>
	◦ Featured in Intel Developer Spotlight for pioneering the use of Intel-optimized machine learning to advance neural disorder diagnosis and treatment in children.	
•	<b>Book: Artificial Intelligence and Voice Assistants:</b>	Jun 2022 <b>DOI   Link</b>
	◦ Contributed a chapter titled: Voice Assistant The Future Of Artificial Intelligence (pages 235-243) Royal Book Publishing ISBN: 9789391131296.	

SKILLS SUMMARY	
• <b>Languages:</b>	C++, Javascript, Typescript
• <b>Frameworks:</b>	ReactJS, React Native, ExpressJS, NodeJS, Bootstrap, TailwindCSS, Flask
• <b>Tools:</b>	GIT, Postman
• <b>Databases:</b>	SQL, MongoDB, Firestore, Prisma
• <b>Soft Skills:</b>	Leadership, Event Management, Writing, Strategic Planning

CERTIFICATIONS	
• <b>Microsoft Certified: Azure Administrator Associate (AZ-104)</b>	<b>Certificate</b>
• <b>AWS Certified Cloud Practitioner (CLF-02)</b>	<b>Certificate</b>