PRANAV P K

Gmail | Github | Linkedin | Portfolio

EXECUTIVE SUMMARY

Innovative and results-driven developer with expertise in full-stack development, blockchain technology, and AI-powered solutions. Adept at problem-solving, collaborating in dynamic environments, and driving impactful digital solutions.

EDUCATION

- **Vellore Institute of Technology** (2023-2027)
  B.Tech. in Electronics and Computer Engineering
  CGPA: 8.7/10 | Chennai, Tamil Nadu
- **S.R.D.F. Vivekananda Vidyalaya** (2009-2023)
  Maths and Computer Science | Chennai, Tamil Nadu

EXPERIENCE

- **Quetzalcoatl Pvt. Ltd.** (Mar 2025 – Present)
  Full Stack Developer Intern
  - Researched cloud platforms like OVHCloud and Linode for scalable 3D model deployment.
  - Developed a dynamic pricing system based on 3D model volume.
  - Built a web app to upload .stl and .step files and calculate volume-based pricing.
  - Used Node.js, node-stl, and FreeCAD via Python for backend processing.
  - Integrated Node.js and Python for automated geometry and pricing workflows.
  - Designed the system architecture with Docker containerization for cross-device accessibility.

- **IEEE Robotics and Automation Chapter VITC** (Nov 2024 – Present)
  Member of Web Development Department
  - Designed and developed a responsive event website using Next.js for a workshop and hackathon.
  - Built Svelte-based front-end components with Tailwind CSS, improving performance and responsiveness.
  - Integrated Node.js backend for real-time user authentication and data synchronization.

SKILLS

- **Programming Languages:** Python, Java, C, C++, JavaScript, Dart
- **Frontend Technologies:** React.js, Next.js, React Native, Tailwind CSS, Svelte, TypeScript, Ether.js
- **Backend & Databases:** Node.js, Express.js, MongoDB, MySQL, Firebase, PostgreSQL, Solidity
- **Developer Tools & Platforms:** Git, GitHub, Vercel, Postman, Docker, Kaggle, Flutter
- **Soft Skills:** Team Collaboration, Problem Solving, Time Management, Leadership

PROJECTS

- **DeWorkHub: Web3 Contract-Based Freelancing Platform** – Github Link
  - Developed a Web3 freelancing platform enabling contract-based jobs with smart escrow payments.
  - Built a secure escrow system where funds are locked in smart contracts and auto-released upon task completion.
  - Integrated DAO governance for fair fees and dispute resolution without intermediaries.
  - Designed a Next.js frontend, a MongoDB backend, and Solidity smart contracts for seamless blockchain transactions.

- **TalkNest: Realtime Chat Application** – Github Link
  - Built a real-time chat application using React Native and Firebase for seamless cross-platform messaging.
  - Implemented user authentication with Firebase Auth to enable secure login and user management.
  - Used Firestore for real-time message syncing and data persistence.
  - Integrated Expo Router for smooth in-app navigation and better development workflow.
  - Designed a responsive UI to deliver a consistent chat experience across devices.