Pranav T.J.

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LinkedIn | GitHub | Credly

Summary

Software Developer with one year of experience in building scalable applications, AI/ML models, Android applications, skilled in AWS cloud deployment and blockchain integration. Strong leadership and collaboration experience through internships and hackathons.

Education

Vellore Institute Of Technology Chennai   Sep 2022 -
- B.Tech in Electrical & Electronics Engineering (**Minor** in Computer Science and Engineering)
  CGPA: **8.52**

Experience

App Developer Intern, NexEV Solutions   July 2025 – Sep 2025
- Built a full-stack EV charging application with a map-based station locator, secure RBAC-enabled APIs, and Bluetooth-based remote monitoring of charging stations.
- Deployed and tested the application in Chennai, resulting in a 40% increase in monthly API calls.

AI/ML Intern, Shell, AICTE India   June 2025 – July 2025
- Enhanced and optimized CNN models (MobileNetV2, EfficientNetV2B3) on a custom dataset, achieving 98% accuracy.
- Implemented trained Keras models for real-time predictions, improving inference accuracy reducing loading time by 50% and documented results in a comprehensive project report.

SDE Intern, Internpro, AICTE India   June 2025 – July 2025
- Led an 8-member team to build Estate.com, a real estate listing platform for buyers, and SEO engineered to increase web traffic by 50% using Next.js, PostgreSQL, and AWS Cognito for role-based authentication. Reduced deployment time by 60% through implementing a CI/CD pipeline.
- Spearheaded UI/UX design and backend architecture, streamlined GitHub workflows, and executed seamless deployment on Vercel, boosting release efficiency by 80% and improving system reliability.

Android Developer Intern, Imarticus Learning   June 2025 – July 2025
- Launched PocketBills, an Android app built with Kotlin, MVVM, and Room DB for expense tracking with automated CSV export, gaining 15+ active users.
- Led a 4-member agile team, driving feature development, version control, and deployment.

Projects

Custom Git Version Control System [Project Link]
- Developed a custom Git-like version control system using JavaScript, replicating core features of professional VCS tools including commit tracking, branching, merging, and file hashing to enhance code collaboration and management. Tools: Built with JavaScript, Node.js, and File System APIs, supporting 200+ commits with efficient branching/merging, improving team collaboration speed by 30
- Rolled out efficient repository management and versioning mechanisms, demonstrating strong knowledge of distributed systems, file structures, and software development workflows.

P2P Energy Trading Platform [Project Link]
- Implemented a decentralized peer-to-peer energy marketplace with both web and mobile applications, enabling 50+ simulated energy transactions/day, reducing reliance on centralized grids and demonstrating 20% faster settlement times through seamless integration between the mobile app and the Aptos blockchain. Tools: Aptos, Solidity, Petra Wallet, Next.js, Aceternity UI, Mobile App Integration.
- Delivered secure smart contracts on the Aptos blockchain and fully integrated them with the mobile application, tested with 500+ transactions at 100 TPS, ensuring <1s transaction finality, consistent cross-platform behavior, and zero security breaches in test runs.

Freelance E-commerce Platform
- Freelanced for a jewelry shop owner to build an offline-first automated billing system with Vite.js, integrated with local storage and automated database synchronization, reducing database usage by 90%.

- Built and optimized a full-featured e-commerce website with a modern UI, secure payment integration via Razorpay, and end-to-end order ma nagement, delivering a reliable and scalable retail solution. Achieved a 50% product revenue growth for the company. Tools: Node.js, Next.js, JavaScript, PostgreSQL.

Additional Information

Technical Skills: Java, Python, C, C++, JavaScript, TypeScript, SQL, Kotlin, HTML5, CSS3, React.js, Node.js, Express.js, Spring Framework, Spring Core, Spring Boot, RESTful Services, Microservices Architecture, REST APIs, JSON, SOAP, API Design, MySQL, MongoDB, PostgreSQL, Room Database, Android Development, Android SDK, Android Studio, Jetpack Components, MVVM Architecture, Mobile App–Backend Integration, npm, Agile/Scrum Development, CI/CD Best Practices, JIRA, Bitbucket, Docker, Kubernetes (basic), Pivotal Cloud Foundry, Cloud-Native Application Development, Event-Driven Architecture, Apache Kafka (basic), Data Structures and Algorithms, Object-Oriented Programming, Unit Testing, Efficient Scaling, Machine Learning, Flask, Keras, TensorFlow, AWS Cloud Services

Frameworks & Tools: Next.js, Vite, React Native, Android Studio, MATLAB, Simulink, Ansys Maxwell, LTSpice, Git/GitHub, Docker, CI/CD Pipelines.

Certifications: IBM Full Stack Software Development; IBM AI Engineer Professional Certificate; Oracle Generative AI; MongoDB Associate Node JS developer; Google Data Analytics; Machine Learning (Stanford, DeepLearning.AI); Networking Basics (CISCO); Blockchain Specialization (Coursera).

Languages: Tamil, English, Hindi, Saurashtra (Native), German (Elementary).

Volunteering: Lead Web Developer in Havoltz Club, Active Member of DAO Club VITC, Web Developer in NSCC Club VITC

Awards: - 1st Place in Glitchcon 2025 (100+ teams, AI solution in 24h) - Semi-Finalist in DevsHouse 2025 (scalable production-ready app) - Special Mention in Hacker House Goa 2024 (teamwork & innovation)

Soft Skills: Leadership, problem-solving, communication, collaboration, adaptability, and team coordination.