Tarun Lalwani
Software Engineer

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Professional Experience

Software Developer Intern | **Remote**
(Modgenics Technology Solutions Limited) | *Aug, 2024 - Present*
- Re-architected the website, boosting performance by 35%, and streamlined AWS backend deployment, cutting time by 40%.
- Integrated key features for a German client, DueDash, enhanced user engagement by 25%, reduced feature integration time by 30%.

Full Stack Developer Intern | **(Certificate) Remote**
(Pie Cloud LLP) | *Nov, 2023 - Feb, 2024*
- Built Web Socket and Socket.io testers: Enhanced real-time communication by 40% using React.
- Developed APIs: Created 15+ RESTful APIs with Laravel and MySQL, reducing data retrieval times by 25%.
- Engineered website on Inertia.js: Boosted page load speed by 35% and user retention by 20%.

Position of Responsibility

Co-Lead, MERN Developer | **Ghaziabad, India**
(Google Developer Student Clubs) | *Oct, 2022 - Present*
- Google Cloud Facilitator (2023-24): Led initiatives, engaging over 200 participants in Google Cloud technologies.
- Constructed GDSC-AKGEC Website: Designed and implemented both frontend and backend, improving user engagement by 30%.
- Organized Hackathons and Workshops: Hosted 10+ events on Google technologies like Flutter and Gemini, impacting 500+ students.

Achievements

- Hacker House Goa'24 (National Level hackathon) winner (EcoCred)
- Anveshana'24 Winner (Swach- Carbon Credit System) — (Certificate)
- RIISE'24 Winner at IIIT-Delhi (BrewCraft)(Certificate)
- 1st Position (India) – IEEE-iSES Contest (Brain Bridge)

Technical Skills

Languages: Go, C++, JavaScript, Java, Python
Web & Frameworks: Node.js, Express.js, React, Socket.IO, WebSocket, Laravel, TailwindCSS, HTML/CSS, Bootstrap, Next.js, TypeScript
Database & Cloud: MongoDB, MySQL, Firebase, AWS (EC2, S3), IPFS
Tools & Practices: Git, GitHub, Postman, VS Code, Agile, Insomnia
AI/ML & Others: ChatGPT, Copilot, Langchain, TensorFlow, OpenAI API, Flask

Projects

BRAIN BRIDGE (Winner – IEEE iSES): AI app aiding cognitive therapy for children.
1. Executed engaging games (Minesweeper, TicTacToe) to help train the brain.
2. Devised LSTM-based ML model for mental health diagnosis using EEG data, improving accessibility early intervention.
Tech Stack: Flutter, NodeJS, MongoDB, TensorFlow, Flask, Python (June 2023)

SWACHH (Winner – Anveshana): A blockchain-based platform incentivizing companies to reduce carbon emissions.
1. Companies register, receive emission limits, and trade carbon credits via Sepolia blockchain's ERC-20 tokens.
2. With robust security, scalability, and real-time monitoring, Swachh aims to promote environmental sustainability while providing a transparent and efficient carbon credit trading solution.
Tech Stack: Flutter, NodeJS, MongoDB, Solidity (December 2023)

BREWCRAFT (Winner – RIISE at IIIT Delhi): A smart health recipe app with 3 solutions :
1. Features a drag-and-drop ingredient selection game that reveals a recipe matching the chosen ingredients
2. Leverages machine learning on blood reports to predict recipes based on nutritional deficiencies.
3. IPFS (InterPlanetary File System) is used for saving the blood report to offer decentralization and security.
Tech Stack: Flutter, NodeJS, MongoDB, IPFS, Flask, Python (Machine Learning) (March 2024).

Education

B.Tech | **Ghaziabad, India**
Dr. A.P.J. Abdul Kalam Technical University (AKTU) | *2021-2025*