Sameer Patel

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EDUCATION

Indian Institute of Information Technology, Senapati, Manipur **2023 - Present - 2027**
B.Tech in Computer Science and Engineering *Manipur, India*
- **GPA : 8.91/10.0**
- **Latest Semester (4th) : 9.19/10.0**.

WORK EXPERIENCE

Solo Developer |Trackinetics| AdTech SaaS Platform **Aug. 2024 – Present**
Solo Lead Developer
- An AI-driven AdTech platform designed to optimize ad performance tracking for advertisers and publishers.
- Designed and developed a full-stack AdTech software to track ad performance between advertisers and publishers, handling over a million clicks in a single day for a client.
- Built using Next.js (React) for the front-end and Supabase (PostgreSQL, Rust(Axum)) for scalable backend APIs, achieving profit margins of over 95%.
- Implemented real-time analytics for tracking key metrics such as CPI, RPM, and CTR, enhancing decision-making for clients.
- Developed robust RBAC for advertisers and publishers and integrated postback URL parsing for precise conversion tracking.
- Optimized data retrieval and storage using SQLx for PostgreSQL, ensuring efficient performance and scalability.

Client Project 1 **Jan. 2024 - Oct. 2024**
Solo Developer
- Developed a Foreign Exchange and Stock Market trading software suite to optimize trading strategies and performance.
- Designed an automated trading algorithm suite for Forex and Stock Market, enhancing trading efficiency and accuracy for the client.
- Managed a full Dedicated Linux Server infrastructure, ensuring seamless automation and secure operation of multiple trade models.
- Collaborated with clients to backtest trading strategies, providing insights and optimizing their performance on hosted systems.

Client Project 2 **June. 2020 - Present**
Solo Developer
- Developed, managed, and ensured smooth operation of an AI-based verification automation bot for a Government Agency, enhancing process efficiency.
- Significantly reduced employee work overload by 100 times, significantly minimizing manual intervention, and saving valuable time.
- Streamlined verification processes, resulting in faster and more accurate outcomes while maintaining compliance with government standards.
- Collaborated with agency stakeholders to identify process bottlenecks and customize solutions tailored to specific operational needs.

PROJECTS

ML based Physics Simulation **Summer 2025**
Solo Developer
- Developed a hybrid physics simulation engine integrating machine learning with traditional Newtonian mechanics.

- Implemented a C++ and Raylib based 2D physics particle simulator, modeling real-world interactions.
- Trained an ML model to predict particle motion, reducing computation time compared to classical physics solvers.
- Designed a direct pipeline from the physics simulation to the ML training script for continuous model improvement.

Achievements

Flipr Web Development Hackathon   **Summer 2025**
Team Leader
- Led a team of 4 to win the bronze medal in the National Flipr 27.2 Web Development Hackathon.

Open Source Contributions

GNOME Foundation   **Summer 2025**
- *GNOME Workbench (Github)*
- *GNOME Crosswords (GitLab)*

SKILLS & INTERESTS

- **Technologies:** MongoDB, CSS, HTML5, C++, C, Rust, Python, Java, Kotlin, React, Next.js, Remix, Express, Node/Deno, Bevy, Raylib, SFML, PostgreSQL, MySQL/MariaDB, RocksDB, PyTorch, Godot, Blender, Shading Languages (GLSL, WGSL)
- **Skills :** Cloud Computing, Microservices, Game Development, Computer Graphics, Full Stack Development, Android Development.
- **Interests:** Building Computers, Chess, Badminton, Piano, Computer Graphics, Simulation, AI-Driven Physics Models, Numerical Simulations
- **Languages**: English, Hindi, Japanese