

Joanathan Packia Singh

B.Tech Computer Science & Engineering (Artificial Intelligence)

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EDUCATION

Saveetha Institute of Medical and Technical Sciences (SIMATS)

Chennai, India

B.Tech Computer Science and Engineering (Artificial Intelligence)

2024 – 2028 (Expected)

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript

Web: HTML, CSS, Node.js, REST APIs

AI/ML: Generative AI, RAG, Embeddings, OpenCV, NumPy, Pandas, Scikit-learn

Databases: PostgreSQL, MySQL, MongoDB, Supabase

Tools: Git, GitHub, Linux, VS Code, Vercel, Docker

PROJECTS

LoreBook | *AI-Powered Student Study Workspace*

GitHub | Live

- Architected an AI-powered study workspace that dynamically processes multi-format documents (PDF, DOCX, image, text) into contextual learning material for easier studying, retrieval, and interaction with course content.
- Integrated document chunking, embeddings, AI chat, summaries, flashcards, quizzes, course management, and content sharing using Gemini, Voyage, and Supabase for application and data workflows.

ClinDex | *AI-Assisted Prescription Review Platform*

GitHub | Live

- Developed an AI-assisted prescription review system that combines medication information with patient-specific clinical context to help identify missing information and potential prescription risks.
- Implemented RxNorm-based medication lookup and prefilling, along with an AI-driven questionnaire that asks for missing patient context and surfaces potential drug interactions and related risks.

Battle Royale | *Java Game Development*

GitHub | Play

- Programmed advanced AI bot behavior and enhanced an existing Java-based battle royale game by engineering gameplay systems including loot, safe-zone mechanics, minimap functionality, and settings.
- Refactored and extended the existing codebase with new gameplay behavior, balancing changes, naming, and player-facing features while adapting the original game systems to the updated experience.

FundMeUp | *Crowdfunding Web Application*

GitHub | Live

- Designed a crowdfunding application for creating, managing, browsing, and supporting fundraising campaigns, implementing authentication, campaign creation and management workflows, frontend interfaces, and backend/database integration for handling campaign and contribution data.

EXPERIENCE

Zoho Corporation

Chennai, India

Software Development Intern

Oct 2026 – Nov 2026

ACHIEVEMENTS & HACKATHONS

Winner – Next Gen Product Buildathon (SQ1 Security & AI Geeks)

2025

- Won with **Farmzy**, a smart agriculture platform, leading software development as Software Head and building the frontend, backend, and ThingSpeak API integration for real-time soil monitoring and data visualization.

Top 5 – Hackforge Hackathon (DDGDVC)

2025

- Achieved a Top 5 finish with **Farmzy**, integrating soil-monitoring hardware with software analytics to enable real-time monitoring and data-driven agricultural insights.

NXTGEN'26 – International Software Innovation Hackathon (SRMIST, Logitech)

2026

- Developed **AlienBuster**, an invasive species early warning platform combining citizen-reported geotagged images with Sentinel-2 satellite NDVI analysis to identify vegetation anomalies and support early ecological threat detection during a 24-hour hackathon.

CERTIFICATIONS

NPTEL – Statistical Learning for Reliability Analysis

2025

NPTEL – Introduction to Internet of Things

2026

NPTEL – Social Network Analysis

2026