Simiyon Vinscent Samuel L

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Education

Sri Sivasubramaniya Nadar College of Engineering (SSN) — Chennai, India
Integrated M.Tech in Computer Science and Engineering, CGPA: 8.315/10 — *Aug. 2024 – May 2029*

C.M.S. Vidya Mandir Matriculation Higher Secondary School — Coimbatore, India
Higher Secondary (HSC), Tamil Nadu State Board — *May 2023*

Technical Skills

Languages: TypeScript, JavaScript, Python, Dart, Kotlin, Java, C#, C/C++, Solidity, SQL
Frameworks: Next.js, React, Flutter, Electron, WPF/.NET 8, FastAPI, Node.js, Jetpack Compose, Tailwind
Cloud & Data: AWS (Lambda, API Gateway, DynamoDB, S3, Cognito, Bedrock), Zoho Catalyst, Supabase, Redis
Developer Tools: Git, Docker, Postman, Linux, VS Code, jadx, Unicorn, scapy, ONNX Runtime, LangGraph

Experience

Software Engineering Intern — Mar. 2026 – June 2026
DreamPi — *Chennai, India*

- Took an AI vocational learning platform from prototype to production as its primary engineer, shipping a voice-first Next.js app in English, Hindi and Tamil on Supabase with row-level security and vector search
- Designed the cloud architecture and release plan with scheduled analytics, embedding edge functions and OTP auth, then cut launch risk by auditing AI vendor data handling and W3C/WCAG accessibility

Freelance Software Developer — 2025 – Present
Independent — *Remote*

- Delivered production web applications for external clients, owning each project from requirements and architecture to deployment on Vercel and Supabase

Projects

Conversational Crime Intelligence System | *Zoho Catalyst, FastAPI, LangGraph, React* — 2026

- Earned a shortlist place in a Zoho hackathon with a conversational intelligence assistant for state police, building a LangGraph retrieval pipeline with Zia ASR/TTS/Translate in English, Hindi and Kannada
- Hardened the service by fixing a wildcard CORS with credentials flaw, closing index race conditions and enforcing rank based RBAC with TTL bound session tokens

FaceGuard: Deepfake and AI Image Detection | *Python, FastAPI, ONNX, React* — 2026

- Won a track prize at a hackathon hosted by Anna University, CEG Guindy, building a four layer checker combining dwtDct watermarking, Facenet embedding match, GAN artifact analysis and Google SynthID

FarmLedge: Blockchain Agricultural Supply Chain | *Solidity, Arbitrum, IPFS, TypeScript* — 2025

- Reached **National Finalist** at Smart India Hackathon 2025 against thousands of teams, building farm to consumer traceability with batches on Arbitrum Sepolia, provenance on IPFS and on-chain transfer

FlashBook: Serverless AI Learning Platform | *Flutter, AWS Lambda, Gemini, DynamoDB* — 2026

- Advanced through multiple rounds of the AWS backed "AI for Bharat" hackathon by architecting a serverless pipeline (API Gateway → Lambda → DynamoDB/S3/Cognito) turning PDFs into AI learning cards and images with Google Gemini

Open Source Projects

Soundwave: real time vocal and instrumental separation on Android, no cloud upload, using ExoPlayer PCM taps and a Spleeter 2 stem ONNX model

Voxa: cross-platform voice to text, an Electron desktop app plus a Kotlin Android keyboard (IME) with global hotkey capture

LeetCode Stats Card: six composable sections across 167 themes, animated SVG that plays inside GitHub's README image sandbox

Achievements & Research

National Finalist, Smart India Hackathon 2025 | **Track Winner**, Anna University CEG | **Runner-up**, PSG Ideathon

TRIVARNA 2.0 CTF: solved **13 challenges independently for 3,400 points** across web, crypto, reverse engineering, Android and forensics, including ECDSA nonce reuse key recovery and ARM64 native library emulation; team placed **11th**

Research Co-author: "Improving Source Code Comment Relevance with Domain-Adaptive CodeBERT", pretraining over the IRSE/FIRE corpus of 11,452 code and comment pairs