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NIKHIL TOMY

LinkedIn | GitHub | Portfolio

nikhiltomy.mec@gmail.com

+91 7306767714

SKILLS & INTERESTS

- **Programming Languages:** Java, JavaScript, Python, TypeScript, C++, C, Rust, Shell
- **Web Technologies:** React, NextJS, ExpressJS, NodeJS, HTML, CSS, REST API
- **Databases & Storage:** PostgreSQL, MongoDB, MySQL, Redis, IPFS
- **Frameworks & Tools:** Spring Boot 3, Django, Django REST Framework, Hyperledger Fabric, Docker, Git
- **Security & Cryptography:** AES-256-GCM, CP-ABE, Shamir Secret Sharing (SSS)
- **Soft Skills:** Time Management, Problem Solving, Teamwork, Adaptability, Critical Thinking, Attention to Detail, Organizational Skills
- **Interests:** Cybersecurity, Blockchain, iOS Development, Machine Learning

EXPERIENCE

- **Full Stack Developer Intern | THEMECONVERTER** *Remote | Feb 2026 – Mar 2026*

  - ***Architected and delivered*** *an end-to-end MVP migration platform to seamlessly transfer store themes, catalog data, and configurations between Shopify stores using* ***Python, Rust, and Django REST Framework****.*
  - ***Engineered high-throughput data extraction services*** *in* ***Rust*** *and Python to concurrently fetch, sanitize, and map nested JSON schemas across heterogeneous Shopify store instances.*
  - ***Implemented resilient API handling*** *with exponential backoff, rate-limit throttling, and idempotent endpoints to prevent data duplication and API throttling during bulk store transfers.*
  - ***Developed automated migration validation checks****, reducing manual payload verification time and ensuring 100% data integrity post-migration.*

- **Research And Development Intern | Sedai** *Remote | Sep 2025 – Feb 2026*

  - ***Designed and developed*** *core backend modules for an enterprise LLM pricing and cost-attribution API utilizing* ***Python*** *and* ***Django****.*
  - ***Constructed dynamic token-cost aggregation pipelines*** *to calculate real-time inference pricing across multiple foundation model providers based on prompt/completion token usage and model tiers.*
  - ***Optimized API query latency and throughput*** *by implementing response caching and modular database schemas to handle concurrent billing lookups.*
  - ***Collaborated within an agile R&D team****, establishing unit test suites and automated schema validation to maintain high reliability across critical billing workflows.*

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EDUCATION

- **Govt. Model Engineering College** 2026
  KTU, B.Tech in Computer Science Engineering *9.0*
- **Kuriakose Elias English Medium School**, **Mannanam** 2022
  State, 12th *98.8%*
- **Kuriakose Elias English Medium School**, **Mannanam** 2020
  ICSE, 10th *93.3%*

PROJECTS

- **MediLedger — Blockchain-Secured Medical Records Platform | Full Stack Developer**

  Technologies: *Java, React, Spring Boot 3, Hyperledger Fabric, IPFS (Pinata), AES-256-GCM, CP-ABE, SSS, Docker*

  - ***Architected*** *an enterprise-grade electronic health record (EHR) backend using* ***Spring Boot 3 and Hyperledger Fabric****, ensuring HIPAA-compliant, tamper-evident audit logging.*
  - ***Engineered*** *a zero-trust cryptographic pipeline: implemented* ***AES-256-GCM*** *for symmetric record encryption, CP-ABE for role-based provider access, and a* ***(k, n) threshold Shamir's Secret Sharing (SSS)*** *scheme for emergency data recovery.*
  - ***Containerized*** *the blockchain network and backend microservices using* ***Docker, integrating IPFS (Pinata) off-chain storage*** *to reduce on-chain state bloat by over 80%****.***

- **Prioriti | Full Stack Developer**

  Technologies: *TypeScript, NextJS, ExpressJS, REST API, Git*

  - ***Developed*** *a full-stack automated study schedule generator using* ***Next.js, TypeScript, and Express.js,*** *parsing unstructured syllabi and task constraints via LLM endpoints.*
  - ***Designed*** *structured prompt workflows and validation layers to convert user documents into deterministic, collision-free calendar events via custom* ***REST APIs****.*
  - ***Integrated*** *persistent state and schedule regeneration logic, cutting manual study-planning overhead down to seconds.*

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- **Quizzero | Full Stack Developer**

  Technologies: *TypeScript, Node.js, NextJS, Gemini API, Web Scraping, Git*

  - ***Engineered*** *an automated quiz engine leveraging the* ***Gemini API and web scraping*** *to curate up-to-date football stats and generate dynamic multiple-choice trivia.*
  - ***Constructed*** *performant* ***REST APIs in Node.js/TypeScript*** *with state tracking to compute user leaderboards, response latency, and category performance analytics.*
  - ***Optimized*** *LLM query costs and API rate limits by caching frequent question schemas and scraped datasets.*

- **Edusync | Backend Developer**

  Technologies: *JavaScript, NextJS, ExpressJS, PostgreSQL, Git*

  - ***Designed and deployed*** *the relational database schema in* ***PostgreSQL****, building optimized relational tables and indexed foreign keys for student attendance and grade tracking.*
  - ***Implemented*** *secure RESTful API endpoints in* ***Express.js*** *for student-teacher role authentication and* ***CRUD*** *operations on academic schedules.*
  - ***Reduced*** *query latency on heavy batch-attendance endpoints by optimizing relational joins and implementing structured JSON responses.*

COURSES & CERTIFICATIONS

- **Oracle Certified Professional: Java SE 17 Developer —** Oracle | *Verify Credential*
- **Developing Secure Software (LFD121)** — The Linux Foundation (Issued Apr 2026) | *Credential ID: LF-tgrbbrmk5k*
- **Java Backend Development Live** — GeeksforGeeks (Issued Sep 2025)
- **Programming in Java** — Certified by NPTEL in association with IIT Kharagpur
- **Java Collections and Lambda** — Udemy
- **Object-Oriented Concepts in Java** — Coursera

KEY POSITIONS

- **Chairperson, MACS 2025**
  Served as the elected chairperson for the association of Computer Science Engineering students.
- **Publicity Head, MACS** | *Jul 2024 – Jul 2025*

ACHIEVEMENTS & ACTIVITIES

- Participated in **IndiaFOSS**, **2024**, an open-source conference conducted by **FOSS India**.
- Took part in **Hack for Tomorrow**, a hackathon conducted as part of **EXCEL 2024**, Techno-managerial fest of **MEC.**
- Volunteer of **Decrypting DSA**, **2024**, a DSA training session conducted by **TLE MEC**.
- **Hobbies:** Football, Badminton, Swimming, Music.