

# Mohamed Aqeel Jameel

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## Professional Summary

Computer Science undergraduate seeking an internship to gain industry experience in a structured engineering team. Experienced in building production-ready web and mobile applications using React, Next.js, Node.js, Python, AWS, and LLM APIs including Google Gemini, OpenRouter, and Claude. Strong interest in backend systems, cloud deployment, automation, databases systems, and AI-powered products.

## Technical Skills

<b>AI &amp; LLM</b>	LLM APIs & frameworks (Google Gemini, OpenRouter, Anthropic Claude), prompt engineering, constrained/structured JSON outputs, metric-grounded & responsible-AI prompting; Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter
<b>Languages</b>	Python, TypeScript, JavaScript, Java, Dart, Kotlin, SQL, C, C++
<b>Frontend</b>	React, Next.js, Tailwind CSS, Flutter, Jetpack Compose
<b>Backend &amp; APIs</b>	Node.js, NestJS, Express.js, REST API design, Prisma, TypeORM
<b>Cloud &amp; DevOps</b>	AWS (EC2, RDS, S3, CloudFront, CloudWatch, SES, EventBridge), GitHub Actions CI/CD (OIDC), Vercel, Railway
<b>Data &amp; ETL</b>	Python data pipelines, web scraping (Cheerio, Python), CSV bulk import/export, data validation & cleaning
<b>Databases</b>	PostgreSQL, MySQL, Redis
<b>Security</b>	Cybersecurity fundamentals, SSRF protection, RBAC, JWT, Auth0, OIDC, credential hygiene, secure image handling, rate limiting
<b>Tools</b>	Git, GitHub, Postman, Linux

## Experience

<b>Co-Founder &amp; Founding Engineer, Total Tech Solutions (Pvt) Ltd</b>	<b>2025 - Present</b>
<i>AI-Powered E-Commerce Platform   Next.js, TypeScript, AWS, Python</i>	<i>Colombo, Sri Lanka</i>

- Developed and deployed a production e-commerce platform end to end: a Next.js (React) storefront and admin dashboard, and a PostgreSQL database.
- Architected and provisioned the full AWS stack (EC2, RDS, S3, CloudFront, SES, EventBridge) and monitored application health with CloudWatch alarms on RDS memory and database-connection thresholds.
- Automated deployments through GitHub Actions with OIDC, removing long-lived AWS keys from the CI/CD pipeline.
- Hardened the platform: SSRF-guarded remote image ingestion (fetch → WebP → S3 behind CloudFront), role-based access control, a credential-rotation and access review across S3, EC2 security groups, and third-party keys.
- Designed a product-variants system with concurrency-safe stock handling, a discount and coupon engine with correct price stacking, and integrated the HNB payment gateway with a manual bank-transfer workflow.
- Engineered a custom Python scraper that bulk-imports supplier catalogues with automated category correction, onboarding around 200 products and cutting hours of manual entry; now extending it with an LLM enrichment layer (OpenRouter) to auto-generate descriptions and SEO copy and extract structured specs.

## Projects

### SafeLanka: AI-Assisted Public Safety & Civic Engagement App 2025

*Flutter, Dart, NestJS, TypeScript, MySQL, TypeORM, Google Gemini, PayHere, JWT* *Team Project*

- Built a multilingual LLM assistant on Google Gemini (English, Sinhala, Tamil) for in-app guidance and emergency detection, with prompt design tuned for safe, grounded responses.
- Developed a full-stack mobile app: a 48-screen Flutter front end and a NestJS REST API of 15+ modules serving three role-based-access roles.
- Implemented real-time emergency SOS with GPS capture, crime reporting with photo evidence, and traffic-fine payment through PayHere.
- Modelled a 17-entity MySQL schema (TypeORM) secured with JWT, RBAC, and OTP; shipped to Google Play internal testing via a GitHub Actions → Railway pipeline.

### Website Audit Tool: AI-Powered SEO, Content & UX Analysis 2026

*Next.js 14, TypeScript, Cheerio, Google Gemini, OpenRouter, Tailwind CSS, Vercel* *GitHub*

- Engineered an AI audit tool that scrapes any URL, extracts page metrics, and returns structured SEO, content, and UX insights; deployed live on Vercel.
- Orchestrated LLM analysis (Google Gemini via OpenRouter) behind a clean layered design that separates HTML scraping (Cheerio), AI orchestration, and logging, keeping API routes thin.
- Designed a constrained JSON output schema with metric-grounded prompting, so every insight cites concrete page data and the model cannot invent findings (a responsible-AI pattern). Added exponential-backoff retries on rate limits and a GitHub Actions CI pipeline.

### Machine Learning & Data Mining: Classification & Regression 2025

*Python, Scikit-learn, Pandas, NumPy, Jupyter* *Academic Project*

- Trained and evaluated classification models (Naïve Bayes, Logistic Regression, KNN) and a Decision-Tree regressor in Python, including a Naïve Bayes + Logistic Regression ensemble, across full data-cleaning and feature pipelines.

### Traffic Pulse: Road Analytics Dashboard 2024

*Python, Tkinter* *Academic Project*

- Built a Python analytics tool to process high-volume traffic CSV datasets with strict validation for data accuracy and integrity, with a Tkinter GUI rendering real-time vehicle-flow histograms.

## Education

### University of Westminster / Informatics Institute of Technology (IIT) Graduation: 2028

*BSc (Hons) Computer Science, 2nd Year* *Colombo, Sri Lanka*

## Professional Certifications

- **Professional Certificate in Artificial Intelligence**, IIT (May to Sep 2025).
- **Professional Certificate in Computer Science and AI Foundations**, SLIIT (May to Sep 2024).
- **Preparing for AWS Certified Solutions Architect, Associate (SAA-C03)**.

## Leadership & Activities

- Member of IEEE, the IEEE Computer Society, and the IEEE Robotics and Automation Society (Jan 2025 to Present).

## Languages

English (Fluent) | Sinhala (Fluent) | Tamil (Fluent) | Malay (Intermediate)

## Sports & Achievements

- MMA and K-1: three years of competitive experience. Swimming: two-time bronze medallist. Muay Thai and BJJ practitioner.