PANAMULLA ARACHCHIGE KAVISHKA NILUMINDA

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WEBSITES, PORTFOLIOS, PROFILES

Portfolio :- https://my-portfolio-plum-pi-18.vercel.app/
LinkedIn :- www.linkedin.com/in/kavishka-niluminda-2b9a23268
GitHub :- https://github.com/Niluminda-glitch
Youtube :- https://www.youtube.com/@kavishkaniluminda6493

PROFESSIONAL SUMMARY

High-performing Software Engineering undergraduate ranked **1st island-wide across five NIBM campuses** (Batch 23.3), awarded a **Merit Scholarship** with a GPA above **3.95**. Full Stack and Mobile Engineer with hands-on experience delivering real-world client solutions. Strong foundation in Data Structures and Algorithms, combined with practical skills in requirements gathering, business analysis, and client communication. Experienced in modernizing legacy systems, building scalable applications, and integrating AI-driven solutions into production systems.

EDUCATION

Higher National Diploma (HND) in Software Engineering | Completed (2025)
National Institute of Business Management (NIBM) | Colombo, Sri Lanka

- Current Standing: Distinction (GPA 3.90/4.00)
- Focus: Distributed Systems, Advanced Data Structures, Enterprise Architecture.

Diploma in Software Engineering | Completed (2024)
National Institute of Business Management (NIBM) | Colombo, Sri Lanka

- Award: President's Merit Scholarship & Batch Top Island-Wide.
- Rank: 1st Place nationally among all students across 5 NIBM branches.

TECHNICAL SKILLS

- **Languages:** Kotlin, TypeScript, JavaScript, Python, C# (.NET), Java, SQL.
- **Backend & Cloud:** Node.js, Express, Redis (Caching/Mutex), RabbitMQ, AWS, Docker, Nginx.
- **AI & ML:** RAG Pipelines, LangChain, Vector Databases (pgvector), Llama 3, OpenAI API.
- **Frontend:** React 18, Next.js 14, Tailwind CSS, Jetpack Compose (Android), HTML5/CSS3.
- **Concepts:** Clean Architecture, MVVM, SOLID Principles, System Design, REST APIs.

SOFT SKILLS

- **Leadership & Mentorship:** Demonstrated ability to lead technical teams (School Prefect, Academic Group Leader) and mentor juniors via educational content creation.
- **Complex Problem Solving:** Proven track record of architecting solutions for abstract problems (e.g., Concurrency Race Conditions, LLM Context Limits).
- **Stakeholder Communication:** Experience gathering requirements and delivering updates to non-technical clients in a freelance capacity.
- **Adaptability:** Fast learner (Rank 1 status) capable of mastering new tech stacks (like Vector DBs or Golang) on demand.

ENGINEERING & R&D PROJECTS

TicketBurst: High-Performance Concurrency System

A booking backend engineered to solve "The Taylor Swift Problem" (mass concurrency). Implemented an Event-Driven Architecture with Distributed Locking to handle thousands of simultaneous requests without data races or double-bookings.

- Tech Stack: Node.js, TypeScript, Redis (Mutex Patterns), RabbitMQ, PostgreSQL, Docker

DocuMind: Interactive RAG (AI) Knowledge Base

An end-to-end AI pipeline allowing users to query private PDF documents. Built a custom ingestion engine that chunks text and stores embeddings locally, overcoming standard LLM context window limitations to provide accurate, citation-backed answers.

- Tech Stack: Next.js 14, Python (FastAPI), LangChain, pgvector, Llama 3

NeoChargeMap: Offline-First EV Assistant

A native mobile app solving Range Anxiety for Electric Vehicle users using a Local-First Architecture, ensuring full functionality even with zero network coverage.

- Tech Stack: Kotlin, Jetpack Compose, Room Database, Google Maps SDK, Clean Architecture (MVVM)

EmpTrack: AI-Powered Performance Intelligence Platform

An enterprise HR tool shifting employee management from reactive tracking to proactive prediction through AI-driven performance analysis.

- Tech Stack: React.js, Node.js, PostgreSQL (Sequelize), OpenAI API, Docker

Chrono-Compiler: Visual Interpreter & Debugger

A core Computer Science project demonstrating how compilers work under the hood. Engineered a recursive descent parser utilizing ASTs and Hash Maps for $O(1)$ variable lookups.

- Tech Stack: TypeScript, React Flow, Vite, Data Structures (Stacks/Trees)

MD Supplement Store (Real Client project) - *Oct 2025 - Jan 2026*

Role: Full Stack Developer & Consultant

Delivered a production-ready e-commerce platform managing complex inventory variants, integrating the PayHere payment gateway, and implementing a verification module to enhance brand trust.

- Tech Stack: React.js, Supabase, PayHere SDK, Tailwind CSS, Vercel

LEADERSHIP & CERTIFICATIONS

- **Senior Prefect (2019–2022):** Tissamaharama M.V. - Demonstrated discipline and leadership
- **Technical Content Creator:** Founder of an educational YouTube channel teaching programming concepts
- **English Proficiency:** Professional English Certificate (Esoft Metro Campus)

REFERENCES

Mrs. Nadeeshani Gunasekara
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