

NETHMA DE SILVA

 [LinkedIn](#) |  +447873649775 |  dsnethma@gmail.com |  [GitHub](#)

Skills

- **Languages:** Java • Python • JavaScript • TypeScript • Dart • Swift • Kotlin • SQL
- **Backend:** Node.js • Express • FastAPI • Flask • SpringBoot • REST APIs • Microservices • OOP
- **Frontend:** React • Next.js • TailwindCSS • Flutter • jQuery • HTML • CSS
- **Databases:** MongoDB • PostgreSQL • SQLite • NoSQL • Firebase • Vector DBs
- **Cloud/DevOps:** AWS S3 • GCP • Docker • Kubernetes • CI/CD • Git
- **Other:** LLMs • RAG Pipelines • Machine Learning • TensorFlow • Unit Testing • Cybersecurity • Documentation • System Design

Experience

Founder & Software Engineer

ELEVATE

London, UK 10/2024 - Present

- Built and launched **Elevate**, an AI-driven SaaS career development platform for software engineers through AI driven features reducing users' career-preparation time by **50%** using **Next.js**, **TypeScript**, **TailwindCSS** frontend.
- Orchestrated a scalable and secure backend leveraging latest LLMs, **FastAPI (Python)** and **MongoDB**, integrated with robust **CI/CD pipelines**, ensuring rapid development cycles and seamless deployments.
- Secured competitive funding from the **Ignite Fund** of **£500**, validating Elevate innovation and potential to significantly impact student and professional communities.
- Reduced per-interaction LLM cost by **93 % (from \$0.15 to \$0.01)** by re-architecting Elevate's AI agents, replacing CrewAI with lightweight, structured-prompt agents without degrading the output.

Software Engineer Intern

BYNERY

Remote | Amsterdam 03/2024 - 09/2024

- Engineered scalable, responsive web platforms for diverse international clients using **Next.js**, **TypeScript**, and **Tailwind CSS**, collaborating remotely across multiple time zones using Agile/Scrum methods to ensure continuous delivery and rapid iteration.
- Developed a sophisticated, interactive geospatial mapping tool integrating environmental datasets, supporting seamless data visualization and analytics for over a **1,000 active user** platform, utilizing **Flask**, **JavaScript**, and **PostgreSQL**.
- Optimized and revitalized **50+ years** of a client's legacy data by implementing comprehensive data cleaning and preprocessing pipelines with **Python (Pandas)**, resulting in **100% dataset usability** and integration into robust **PostgreSQL** database systems.

Education

Bachelor of Science (Honours)

University of Westminster

London, UK 09/2022 - 07/2025

- Major in Computer Science
- Predicted First Class Honours

Leadership & Awards

Microsoft 3rd Place Hackathon Winners

London, UK 12/2024

- Led a team of 5 to secure 3rd place at a Microsoft-hosted Hackathon by developing an AI-powered study platform tailored for neurodiverse students, focusing on personalized learning support and accessibility.

Projects

PING PALS - [Github](#)

Remote 08/2024 - Present

- Co Founded a mobile application which simplifies event creation and coordination for users using **Flutter**.
- Ensured secure and efficient data processing by developing a backend system using **Spring Boot**, **OAuth** to handle authentication with user sessions, profiles, friend lists, and event scheduling.

STUDENT PERFORMANCE PREDICTOR - [Github](#)

London, UK 10/2024 - 12/2024

- Built a neural network using **TensorFlow/Keras** to predict student grades from demographic and academic data with **R²** and **MAPE** evaluation metrics on **Google Colab** with **80%** accuracy.
- Engineered a full ML pipeline including data preprocessing, feature expansion, model regularization, and performance visualization using **Python** and **Scikit-learn**.

WILDLIFE CONNECT - [Frontend](#) | [Backend](#)

Colombo, SL 10/2023 - 04/2024

- **Led a team of 5** towards the development of a wildlife conservation and social media app for Sri Lanka using **Flutter**, **NodeJS**, **ExpressJS** and **MongoDB** with features like species identification, recent animal sightings, and wildlife crime reporting.
- Achieved **90%** accuracy in wildlife species identification using a **TensorFlow model**, containerized with **Docker**, managed with **Kubernetes**, and deployed using Google Cloud Run for scalable and cost-efficient inference.
- Engaged **25+** beta users and deployed the app for test users via Google Play Store with an automated **CI/CD** pipeline.