Jarod Esareesingh

Web Developer / Data Science Researcher

Trinidad and Tobago | jarod.baabaasheep.party | linkedin.com/in/jarod-esareesingh | github.com/Updeus

Experience

Web Developer / Avasant / June 2024 – present

Built a custom WordPress plugin for an education nonprofit covering registration, payments, automated email and student administration. Maintain production PHP and WordPress code, troubleshoot plugin issues and deliver responsive user and administrator workflows.

Education

MSc Data Science, Merit / The University of the West Indies, St. Augustine

Thesis: Source-Traceable Research Intelligence. Compared keyword, learned dense and hybrid retrieval on a fixed corpus of 96 research papers and 719 passages. Read the thesis

BSc Computer Science (Special), First Class Honours / UWI, St. Augustine / 2023

National Bursary recipient. Dean’s Honour Roll in Years 1 and 2.

Selected work

Baabaa Sheep Tools / Founder and full-stack developer

Built 88 browser utilities for PDFs, OCR, images, video and developer workflows. Implemented account features with Supabase and PostgreSQL row-level security. Tested with Jest, Playwright and GitHub Actions. Open the tools

TTLAB Research Intelligence Platform / Research software

Built a React and FastAPI system that links retrieved passages to source pages, tracks model and review provenance, and compares retrieval methods on held-out questions. Project and evaluation

Motor insurance fraud-detection dashboard / Academic project

Led implementation of a Streamlit workflow for data preparation, model training, batch scoring and individual claim predictions. Used cross-validated tuning, precision-recall analysis and SHAP explanations.

Home server / Self-hosting and network automation

Operate Debian and Docker services behind a VPS reverse proxy. Built dynamic-address handling with configuration checks and rollback, and verify service availability with Uptime Kuma.

Publication

Jarod Esareesingh and Patrick Hosein. “An AI-Based Platform for Content Summarization and Idea Generation using a Research Lab’s Output.” IEEE ICTMOD, 2026. Paper

Technical skills

Web TypeScript, React, Next.js, FastAPI, WordPress, PHP, REST APIs, PostgreSQL, SQLite
Data Python, pandas, scikit-learn, XGBoost, SHAP, Streamlit, information retrieval
Delivery Linux, Docker, Nginx, Cloudflare, GitHub Actions, pytest, Jest, Playwright