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edufusionai.co.za (Company)

Top Skills

Artificial Intelligence (AI)

Go-to-Market Strategy

Entrepreneurship

Languages

English (Full Professional)

Italian (Elementary)

Spanish (Limited Working)

Afrikaans (Limited Working)

Certifications

Internet Security

Proposal Reviewer 2024

FCOT - Faculty Certificate in Online Teaching

Fundamentals of Deep Learning

How to Design and Deploy a Simple LAN and Wi-Fi Network

Publications

Computerized simulation model for TEL infrastructure

A learning object repository for computer assisted language learning in order to provide resources for language learners in schools in KwaZulu-Natal

Copilot-Assisted Online Course Design Evaluator

From the outside looking in

The development of a language learning object repository (LLOR) for second language teachers in KwaZulu-Natal, South Africa

Pregalathan Reddy, PhD

AI Strategist for Education & Skills Development | Founder at EdufusionAI
Durban, KwaZulu-Natal, South Africa

Summary

I am a multidisciplinary e-Learning professional with over two decades of experience at the intersection of education, technology, and innovation. My expertise spans academic development, LMS administration (Blackboard, Moodle), and strategic digital transformation in higher education.

With a PhD in Information Technology (2023) and a Master's in Language Practice (cum laude, 2014), I bring a unique blend of pedagogical insight and technical proficiency. My doctoral research focused on developing a computerized simulation model to guide strategic planning for technology-enhanced learning (TEL) infrastructure in South African universities.

As an AI Strategist and 4IR Advocate, I actively explore the integration of artificial intelligence in education—from intelligent course design to data-driven decision-making. I've led institutional LMS migrations, facilitated national training programmes, and contributed to global conversations on digital education.

My research contributions include work on simulation modeling for TEL infrastructure, cloud migration in higher education, and most recently, the development of a Copilot-Assisted Online Course Design Evaluator—a tool that bridges AI and pedagogy to support quality assurance in digital learning environments.

I am passionate about shaping the future of education through research, innovation, and inclusive digital strategies. If your institution is looking to lead in the Fourth Industrial Revolution, I'd be excited to collaborate.

Throughout this journey, I've seen first-hand a critical paradox: a multi-billion Rand investment in skills development coexisting with a persistent, crippling skills gap. The system is hampered by

an information lag and a complexity barrier that prevents the right training from reaching the right people at the right time.

This challenge led me to found EdufusionAI. Our mission is to build the AI-powered engine that fixes this broken pipeline. We are developing a market intelligence and compliance platform to provide training organizations with a data-driven, strategic advantage, ensuring that South Africa's investment in skills translates into real economic growth.

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Experience

EdufusionAI
Founder & CEO
May 2025 - Present (6 months)
Durban, KwaZulu-Natal, South Africa

Building an AI-powered market intelligence and compliance engine to bridge South Africa's critical skills gap. EdufusionAI's platform helps Skills Development Providers get accredited faster by identifying high-demand qualification niches and automating complex QCTO compliance. Our vision is to create a more dynamic, data-driven, and effective skills economy.

Durban University of Technology
19 years 3 months

ELearning Systems Coordinator
January 2020 - Present (5 years 10 months)
Durban Area, South Africa

I have been ensuring that a LMS is available for our 35k users using different infrastructure such as in-house hosting on Windows Server and also on Azure Cloud. I also ensure that we provide help desk support services as well as provide various reports about the performance of the LMS as well as how it is used by lecturers and students. I do all the system updates and maintenance including the Linux OS and the database, as well as storage assessment and upgrading and backups.

eLearning Systems Administrator
August 2008 - Present (17 years 3 months)
Durban Area, South Africa

Overall responsibility for the current and future Technology Enhanced Learning (TEL) system/s at the Durban University of Technology. Contributes to

policy, procedures and architecting of systems related to this, and working closely with the Information Technology department to test and implement enhancements, revisions and changes to ensure that our students and lecturers receive a robust service. Monitor existing services (application stack and databases) currently Blackboard Learn but also part of the recently formed Open LMS task team to review existing and potential systems that may be adopted in the future. Interacts with peers both locally (South Africa) and internationally to benchmark TEL on a continuous basis either through attending conferences, as part of my PhD research or pure benchmarking thus ensuring that decisions are informed by diversity of practice and experience.

Specialist Computer Technician
August 2006 - August 2008 (2 years 1 month)

My responsibilities include maintaining the Blackboard Learning Management System (including backups of content and the database, custom querying of the database, updates of the application and database server) as well as overall administration of course and user creation and support thereof.

Kaytech Engineered Fabrics
Information Offficer
April 2003 - April 2006 (3 years 1 month)

Managed the Technical Library, including the physical collection as well as the Online Catalogue.
Developed and maintained the Intranet using Plone.
Developed and maintained the Image Database using IIS and Microsoft Access, using ASP to perform various functions such as updating and deleting entries.

Durban Institute of Technology
Online Learning Skillls Consultant / Knowledge Officer
April 2000 - December 2002 (2 years 9 months)

Provided one on one support to academics in the development of online materials used with WebCT (Learning Management System). Conducted workshops on web development and file management. Provided telephonic, email and person to person assistance with all aspects of online materials/ resources development. Created a knowledge base as an extension of support. Developed a dynamic database of the 'Pioneers' (staff attending the Pioneers Programme), with their photos and research papers.

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Education

Durban University of Technology
Doctor of Philosophy in Information Technology, Information
Technology · (January 2016 - September 2023)

Durban University of Technology
Master of Technology (Mtech), Computer Aided Language
Learning · (2011 - 2014)

GlobalNxt University
FCOT, Certificate in Online Teaching · (2015 - 2015)

University of KwaZulu-Natal
NDP Education, Web-based Learning · (2007 - 2007)

Durban University of Technology
Btech: Library & Information Studies, Information · (1997 - 2002)