Ei Ei Khaing

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PROFILE

Full-Stack Software Engineer & Applied AI/ML Engineer with **10+ years of enterprise experience** delivering production-grade C#/.NET systems and **hands-on experience building AI-powered applications**. Strong background in **API-driven architectures, cloud deployment, and database design**, combined with applied expertise in **machine learning, deep learning, NLP, and LLM integration**. Proven ability to design, build, and deploy **scalable software systems enhanced with intelligent, data-driven features**.

CORE TECHNICAL SKILLS

Software Engineering & Full-Stack

➢ **Languages:** C#, .NET Framework/.NET Core, SQL, Python, JavaScript, jQuery
➢ **Frameworks:** ASP.NET MVC, Web API, Entity Framework, LINQ, WCF, XML, SOA
➢ **Frontend:** HTML, CSS, jQuery, Bootstrap, AngularJS (familiar), React, TypeScript, Tailwind CSS
➢ **Databases:** MS SQL Server, PostgreSQL, MySQL, Query Optimization
➢ **Cloud/Tools:** Azure App Services, Azure Storage, Azure Functions, GitHub, CI/CD
➢ **Reporting:** SSRS, Power BI, SAP Crystal Report, DevExpress Report, automated report generation
➢ **Other:** OCR (ABBYY FlexiCapture), Document Intelligence, ETL workflows, API integrations

AI / ML & Data Engineering

➢ **Machine Learning:** Regression, Classification, Time-Series Forecasting
➢ **Deep Learning:** CNN, GRU/RNN, Vision Transformer (ViT), Transformers
➢ **NLP:** Seq2Seq models, Transformer-based translation, BLEU evaluation
➢ **Frameworks:** TensorFlow/Keras, PyTorch, scikit-learn, HuggingFace
➢ **LLMs:** Gemini (2.5 Flash), prompt engineering, API-based LLM integration
➢ **Optimization & Explainability:** Optuna (Random, TPE), SHAP
➢ **Data:** Pandas, NumPy, ETL pipelines

PROFESSIONAL EXPERIENCES

Senior Application Consultant - Ernst & Young (EY), Singapore (*Sep 2019 – Dec 2024*)
- Led development of enterprise-scale C#/.NET applications for corporate tax and financial automation systems.
- Designed and enhanced backend services, business logic layers, and API integrations.
- Integrated **AI-driven OCR and document intelligence** solutions (ABBYY FlexiCapture, Microsoft Document Intelligence) to improve automation accuracy and reduce manual processing.
- Implemented **CI/CD pipelines** using GitHub and Azure to improve deployment reliability.
- Collaborated closely with business analysts, QA, and finance teams in Agile environments.
- Provided post-deployment support to ensure production stability.

Senior System Analyst - StarHub, Singapore (*Jun 2018 - Aug 2019*)
- Developed and optimized **SSRS and Power BI dashboards** for operational and financial KPIs.
- Designed SQL Server data models, stored procedures, and ETL workflows.
- Translated business reporting requirements into scalable backend solutions.

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Team Leader, IT - Ryder Ascents Logistics, Singapore *(Mar 2013 - Jun 2018)*
- Led development of a **Warehouse Management System (WMS)** using C#/.NET and SQL.
- Built **B2B integrations** with SAP systems using XML/SOA and APIs.
- Mentored junior developers and managed release cycles and system documentation.

SELECTED AI & FULL-STACK PROJECTS

Smart Travel System (Capstone - Full-Stack + AI)
- Designed and implemented a **full-stack AI-powered travel platform**.
- Built backend services using **FastAPI + PostgreSQL**, exposing REST APIs.
- Integrated **Gemini LLM** for itinerary generation, language assistance, and contextual responses.
- Implemented sentiment insights from user reviews.
- Developed frontend using **React + Tailwind CSS**, demonstrating strong UI-to-API integration.
- Delivered an end-to-end system from data ingestion to AI output and user interface.

Bike Sharing Demand Forecasting
- Built **time-series forecasting models** using **GRU neural networks**.
- Applied Optuna hyperparameter optimization (Random & TPE samplers).
- Evaluated models using **RMSE, MAE, R², sMAPE**, and residual trend analysis.
- Used **SHAP** to explain model predictions and feature importance.

Fashion Product Image Classification (CNN vs ViT)
- Implemented a **custom CNN** and **Vision Transformer (ViT)** using TensorFlow.
- Compared architectures based on accuracy, training efficiency, and generalization.
- Analyzed global attention vs local feature extraction behavior.

English → French Machine Translation
- Built **Seq2Seq models** (GRU/LSTM) and **Transformer-based models**.
- Evaluated translation quality using **BLEU scores**.
- Benchmarked against pre-trained **HuggingFace** translation models.

EDUCATION
- **Fanshawe College, London, ON** *(Jan 2025 - Dec 2025)*
  Graduate Certificate in Artificial Intelligence & Machine Learning (GPA: **4.2**, Dean's Honour Roll)
- **Singapore Polytechnic** - Specialist Diploma, *Mobile Apps Development (2017 - 2018)*
- **University of Computer Studies, Yangon** - Bachelor (Hons.), *Computer Science (2001 - 2004)*
- **Certificates and achievements**
  Microsoft Azure DevOps (Mar 2025) | Solve Problems and Make Decisions at Supervisory Level

ADDITIONAL STRENGTHS
- Strong communication and collaboration skills
- Ability to bridge **enterprise software engineering and applied AI/ML**
- Detail-oriented, adaptable, and capable of owning features end-to-end