

Lucy Hunter

Senior AI/ML Engineer | Full-Stack & Mobile Developer

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SUMMARY

Innovative **AI/ML Engineer with 8+ years** of experience delivering end-to-end AI solutions. Expert in **Deep Learning, NLP**, and **computer vision**, with strong full-stack and mobile development skills. Proficient in **Python/FastAPI/Flask, JavaScript/TypeScript, Node.js, React, Next.js, Nest.js, React Native**, and modern frameworks like **TensorFlow, PyTorch, Hugging Face Transformers, OpenCV**. Experienced in **cloud platforms** including **AWS, Azure, Google Cloud**, containerization and orchestration (**Docker, Kubernetes**), and working with **databases** such as **PostgreSQL, MongoDB, Redis**. Skilled at designing and deploying **AI-driven, production-ready, scalable applications** across web and mobile platforms. Driven to apply AI to solve complex business challenges and create measurable impact.

EXPERIENCE



Senior Software Engineer

Developer Bazaar Tech

📅 02/2022 - 05/2025 📍 Makati City, PH

- Developed **affective-computing AI models** that integrate expert knowledge and intuition to quantify decision quality, enhancing accuracy by 35%.
- Led the development of AI-driven solutions, including machine learning models for **predictive analytics** and **NLP algorithms**, increasing client engagement by 20%.
- **Optimized model performance** through hyperparameter tuning, model fine-tuning, and deployment in cloud environments (AWS, GCP), ensuring scalability and efficiency by 25%.
- Audited and optimized the machine learning stack, providing strategic guidance on **infrastructure** and **MLOps** best practices to enhance efficiency by 20%..
- Leveraged **Hugging Face NLP models** to predict the next optimal action in a sequence using a **Reinforcement Learning Transformer (RLT)**, improving decision accuracy by 15%.



Senior AI Full Stack Developer

Pegotec

📅 07/2019 - 02/2022 📍 Makati City, PH

- Enhanced a **PoC** for text and image generation using **GPT-3** for text and **BigGAN/DALL-E** for images, leveraging **cloud-based AI services** for scalable processing.
- Designed and implemented **natural language processing (NLP) algorithm** to enhance the agency's automated content generation tools, reducing content creation time by 30%.
- Researched and developed AI/ML solutions for deployment on **NVIDIA Jetson Xavier NX**, optimizing performance for edge AI applications on the leading platform of its time.
- Served as a teaching and technical assistant for the **Predictive Analytics** for Healthcare workshop at the largest predictive analytics conference, supporting lead instructors.
- Led team efforts to optimize workflows, automate processes, and scale AI adoption, improving efficiency by 40%.



AI Full Stack Developer

Techgropse

📅 10/2017 - 05/2019 📍 Davao City, PH

- Built an **AI-powered chatbot** for natural language queries on open datasets, leveraging **GPT-2, Elasticsearch, FAISS**, and a custom NLP pipeline with **TensorFlow** and **BERT** to enhance retrieval accuracy by 25%.
- Engineered a **hybrid optimization model** integrating Large Neighborhood Search with **QUBO** solvers, decreasing scheduling conflicts by 35% and improving resource utilization efficiency by 30%.
- Improved an NLP-powered resume screening tool using **spaCy, TF-IDF**, and **Word2Vec** to extract skills and rank candidates, improving selection accuracy by 40% with machine learning models.
- Constructed a machine learning system to detect **voice phishing attacks** from audio signals by identifying tampering methods such as **splicing, synthetic voices**, and **replay attacks**, increasing detection accuracy by 40%.

EDUCATION



Bachelor of Computer Science

Mapúa University

09/2013 - 09/2017 Manila, 1002 Metro Manila, Philippines

SKILLS

Machine Learning Algorithms

Supervised Learning Algorithm

Unsupervised Learning Algorithm

Reinforcement Learning Algorithm

Optimization Techniques

Natural Language Processing (NLP)

Tokenization

Sentiment Analysis

Word/Sentence Embeddings

Text Classification

Text Generation

Conversational AI

Speech-to-Text

Retrieval-Augmented Generation

Computer Vision

Image Classification/Segmentation

Object Detection/Recognition

GAN-based image synthesis

Data Science & Analytics

Data Preprocessing

PCA/t-SNE

Statistical Modeling

Exploratory Data Analysis(EDA)

AI Frameworks and Libraries

TensorFlow

Keras

PyTorch

Scikit-learn

Hugging Face

LlamaIndex

SpaCy

OpenCV

Yolov8

MLOps & Model Deployment

Docker

FastAPI

Flask

TensorFlow Serving

AWS SageMaker

Azure ML

GCP Vertex AI

MLflow

Vector Databases for AI & LLMs

FAISS(Facebook AI Similarity Search)

pgvector

Pinecone

Weaviate

AI Model Integration | Web & Mobile App Development

Large Language Models

GPT models

LLaMA

Claude

Gemini 1.5

BERT

T5

Mistral 7B

Mixtral

Image Generation Models

Stable Diffusion (SD)

DALL·E 3

Imagen

MidJourney

Flux

StyleGAN3

Text-to-Speech Models

gTTS

TTS-1/TTS-1-HD

XTTS-v2

Ultravox

PlayHT

F5-TTS

OpenVoice

Speech-to-Text Models

Whisper

Google Cloud STT

Wav2Vec 2.0

DeepSpeech

Microsoft Azure STT

Web Application Development

React

Next.js

Node.js

Python/Flask/FastAPI

Django

Laravel

Mobile Application Development

React Native

Flutter

Kotlin

Swift

Google Play Store

App Store