

Alistair V. Thorne

Staff Machine Learning Engineer

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Singaporean

Portfolio GitHub

SKILLS

Deep Learning Frameworks

Core frameworks for model development.

- PyTorch
- TensorFlow
- JAX
- Keras
- HuggingFace
- ONNX

Cloud & Infrastructure

Deployment and scaling environments.

- AWS (SageMaker)
- GCP (Vertex AI)
- Kubernetes
- Docker
- Terraform

Programming

Development languages.

- Python
- C++
- Rust
- SQL
- Bash
- CUDA

MLOps & Tools

Tooling for lifecycle management.

- MLflow
- Weights & Biases
- Kubeflow
- DVC
- Airflow
- Prometheus
- Grafana
- Jenkins
- GitLab CI
- Ray
- Triton Inference Server
- BentoML
- Selden
- Feast

Data Engineering

Data processing and storage.

- Spark
- Kafka
- Snowflake
- BigQuery
- Parquet
- Redis
- Elasticsearch
- Cassandra
- PostgreSQL

Mathematical Foundations

Theoretical core.

- Linear Algebra
- Calculus
- Probability
- Statistics
- Optimization

Soft Skills

Leadership and communication.

- Technical Leadership
- Mentorship

CERTIFICATIONS

Google Cloud Professional ML Engineer

Advanced certification for designing and scaling ML models on GCP.

DeepLearning.AI TensorFlow Developer

Validation of expertise in building and training neural networks.

AWS Certified Machine Learning – Specialty

Focus on SageMaker and distributed training on AWS infrastructure.

NVIDIA CUDA Programming Certification

Low-level GPU optimization and parallel computing.

Professional Summary

Strategic technical leader with over 12 years of experience architecting distributed machine learning systems. Expert in scaling transformer-based architectures and optimizing low-latency inference pipelines for global-scale applications. Proven track record of bridging the gap between research-grade prototypes and production-hardened AI services.

EXPERIENCE

Staff Machine Learning Engineer - Aether Dynamics

Aether Dynamics | 2020 - Present

Leading the core ML Platform team focused on high-throughput model deployment and observability.

Technical strategy, cross-team mentorship, and infrastructure design.

Senior ML Research Engineer - Nebula Insights

Nebula Insights | 2017 - 2020

Focused on deep learning applications for geospatial data analysis.

Algorithm development and research-to-production lifecycle management.

Machine Learning Engineer II - Vertex Systems

Vertex Systems | 2015 - 2017

Core member of the Natural Language Processing division.

NLP model training and data pipeline optimization.

Data Scientist - DataStream Corp

DataStream Corp | 2013 - 2015

Applied statistical learning to business intelligence problems.

Statistical modeling and stakeholder reporting.

ML Research Intern - Quantum Labs

Quantum Labs | 2012 - 2013

Research internship focused on high-performance computing in AI.

Experimental support and kernel optimization.

Junior Backend Developer - CodeBridge

CodeBridge | 2011 - 2012

General software engineering role with a focus on data persistence.

Backend maintenance and API development.

Freelance ML Consultant - Thorne Consulting

Thorne Consulting | 2010 - 2011

Independent consulting for small-scale data projects.

Client management and end-to-end model delivery.

EDUCATION

University of Generic Science

Ph.D. in Computer Science | 2008 - 2012

Dissertation on 'Scalable Neural Architectures for Temporal Data'.

State Institute of Technology

M.S. in Applied Mathematics | 2006 - 2008

Focus on Bayesian Inference and Linear Algebra.

Coastal University

B.S. in Software Engineering | 2002 - 2006

Foundational software engineering and data structures.