

Louis Wong

EDUCATION

M.S. in Computer Science (AI & Machine Learning)

Georgia Institute of Technology

B.S. in Computer Science

Western Governor University

AI AGENT SYSTEMS & TECHNICAL STACK

LLMs, AI Agents, Agentic Workflows, RAG, Tool Calling, MCP, OpenAI API, Claude Code, OpenAI Codex, Python, PyTorch, TensorFlow, SQL, PySpark, Airflow, AWS, Azure, React, Node.js, Flask, PostgreSQL, SQL Server

CERTIFICATION

[AWS Certified Machine Learning Specialty](#)

[Microsoft Certified Azure AI Engineer Associate](#)

Antropic certified: Claude Code in Action

Data Science Professional by IBM, Machine Learning Professional by IBM, Marketing Analytics Professional by Meta,

CompTIA Project+ ITIL 4 Foundation by AXELOS

CONTACT

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Los Angeles, CA

[LinkedIn](#) [GitHub](#)

AI RESEARCH PUBLICATION

Research Lead

Multimodal Deep Regression on Video Content

Presented at the [2023 International Conference on Pattern Recognition and Information Processing](#)

- Engineered a multimodal deep learning architecture combining video encoding, audio signal processing, and natural language representations to predict TikTok content success.
- Led research efforts and collaborated across disciplines, presenting and publish findings in a prestigious academic conference.

PROFESSIONAL EXPERIENCE

Data Scientist

2022 – Present / Los Angeles, CA

Paramount Global

- Applied Claude Code, OpenAI Codex, LLM tool-calling, and AI agents to accelerate analytics engineering, documentation, and process automation.
- Built end-to-end ML and AI automation systems for forecasting, profit analysis, inventory optimization, and investment decision support using Python, PyTorch, TensorFlow, AWS, and Azure.
- Built ELT/ETL pipelines with Azure Data Factory and Airflow, consolidating enterprise data into data lakes, warehouses, and dashboards.
- Improved data lakehouse architecture using SQL, NoSQL, JSON, and Delta Lake for Tableau and Power BI executive reporting.
- Administered SQL Server and PostgreSQL databases, supporting schema design, query optimization, reporting, and data architecture.
- Automated KPI tracking, causal analysis, and reporting workflows using AI-assisted analytics and Python automation.

Marketing Science Analyst

2021 – 2022 / Remote

eFunnel Experts

- Developed A/B testing frameworks, segmentation, and clustering models to optimize ad funnels and increase ROAS.
- Built forecasting models for trends, seasonality, and MMM, improving multi-channel marketing efficiency.

Business Analyst

2017 – 2021 / Los Angeles, CA

FreeVolt Energy

- Conducted time series analysis to forecast renewable energy production, aiding in strategic planning and resource allocation.
- Analyzed financial loan data to identify target customer profiles, improving application success rates and project stakeholder outcomes.

AI/ML APPLICATION PROJECT

Terminal AI Agent

Developed an terminal base AI agent with multi-functional capabilities, integrating ElevenLabs audio, GPT model, callback functions, headless search automation, web scrape data and large tokens language summarization.

[AI Document Extraction Agent](#)

Built an AI-powered PDF-to-Excel agent that detects PDF tables, structures extracted data, previews results, and generates review-ready XLSX workbooks for reports, invoices, statements, and pricing sheets.

[AWS End-to-End ML Engineering Pipeline Demo](#)

AWS Sagemaker on classify healthcare data and predict the likelihood of stroke. It covers the entire workflow, from raw data ingestion to model deployment, using scalable cloud-native tools. The dataset reflects common healthcare attributes for binary classification problem, predicting whether a patient is at risk of stroke.