

ALEX LIM

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SUMMARY

Software engineer with 3 years of experience specializing in integrating AI capabilities into production applications and building AI-powered prototypes end-to-end. Skilled in developing scalable backend systems, experimenting with machine learning models, and deploying intelligent features across cloud environments. Proficient in Python, SQL, and statistical analysis, with hands-on experience in model development and applied ML engineering using Pandas, NumPy, and TensorFlow. Combines a solid mathematical foundation with practical software engineering expertise to deliver reliable, data-driven solutions and user-focused AI features.

TECHNICAL SKILLS

Python | SQL | JavaScript | Pandas | NumPy | TensorFlow | Scikit-Learn | Orange3 | Data Modeling | AWS | Git

EXPERIENCE

Software Engineer

Scripted Inc, Manassas, VA

07/2022 to Current

- Led a team of 3 interns through weekly check-ins, task delegation, and code reviews.
- Built Python game engines with modular progression systems and OpenAI-powered asset generation.
- Developed RESTful Flask APIs to serve data and integrate AI-driven image generation features.
- Created Python tools to extract and transform JSON/XML/HTML data, cutting manual content setup by 40%.
- Took initiative to rearchitect key UI components after noticing UI issues, reducing QA-reported UI issues by 30%.

Explosive Performance Coach

Onelife Fitness, Sterling, VA

10/2024 to 08/2025

- Improved client strength and mobility by 25% via data modeling with Orange by optimizing training programs
- Designed a nutrition tracker and body composition calculator to log, analyze, and visualize client progress data.
- Built and maintained a MySQL database of client training records

PROJECTS

Titanic Survival Prediction Model

(12/2025)

- Analyzed Titanic passenger data to identify key survival factors using EDA and feature engineering
- Built and evaluated classification models using Logistic Regression, kNN, Neural Networks
- Applied one-hot encoding, scaling, and RFE to select top predictive features

Serverless Data Quality Impact Analysis (AWS)

(11/2025)

- Designed a multi-layer (Bronze -> Silver -> Gold) serverless data lake on Amazon S3 to standardize ingestion, cleaning, and curation workflows
- Built automated ETL pipelines in AWS Glue (PySpark) with integrated Deequ data quality checks for missing values, schema drift, and constraint validation.
- Orchestrated end-to-end ELT workflows using Step Functions and EventBridge
- Implemented secure, scalable architecture using IAM policies, KMS encryption, and VPC endpoints

Mirai - AI-Driven Visual Novel Engine

(03/2025)

- Built a reusable visual-novel engine that renders branching narrative scenes from structured JSON data
- Developed non-linear dialogue logic, character state tracking, and scene parsing for dynamic storytelling
- Integrated OpenAI API to generate context-aware dialogue, enabling AI-powered narrative expansion

EDUCATION AND TRAINING

B.A. in Mathematics, New York University - August 2021 | GPA: 3.34

C.S.C in Artificial Intelligence & Data Analytics, Northern Virginia Community College - November 2025

CERTIFICATIONS

Meta Back-End Developer Specialization (Coursera) - Python, REST APIs, Databases

PMP (PMI) - Certified Project Manager with Agile/Scrum Experience