

# 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 | Azure | Git

## EXPERIENCE

### Software Engineer

Scrypted 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

### Azure Fitness Analytics Platform

(12/2025)

- Extracting workout data from handwritten/typed journal scans using Azure AI Document Intelligence
- Establishing Azure SQL Database for cleaned/processed data
- Analyzing performance trends and PRs with Azure Machine Learning

### Housing Price Prediction MLOps Pipeline

(11/2025)

- Built an end-to-end serverless MLOps pipeline using S3, Glue ETL, Athena, and SageMaker to predict housing prices
- Trained and deployed an XGBoost regression model on SageMaker
- Designed data lake architecture with Glue Crawlers and ETL jobs to process raw CSVs into Parquet datasets
- Established starting model performance of ~45k RMSE, with ongoing work in feature refinement and model optimization

### 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 - December 2025 | GPA: 3.9

## CERTIFICATIONS

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

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