

# Alexander Xie

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## EDUCATION

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### New York University

Aug 2022 – May 2026

Dual Major in Computer Science and Data Science

GPA: 3.7/4.0

**Relevant Coursework:** LLMS, Software Engineering, ML, Algorithms, Data Management, OS, Causal Inference

## EXPERIENCE

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### Amazon

Jun 2025 - Aug 2025

Software Development Engineer Intern

Boston, MA

- Built a Bedrock AI agent that automated config generation, reducing creation time by 93% for 400+ developers
- Engineered a data pipeline using Lambda, DDB, and OpenSearch to auto validate and process 3K+ configs per day
- Published agent to Amazon's package manager with evaluation layer, boosting config correctness by 40% org-wide
- Scaled adoption across PXT as teams integrated package to streamline workflows and cut config turnaround by 75%

### ColAI

Jul 2024 - Dec 2024

Machine Learning Research Intern

Remote

- Automated ETL pipelines for ingest, cleaning, and feature engineering in PyTorch, cutting runtime by 50%
- Developed transformer forecasting pipeline across 30 datasets, improving accuracy 18% and anomaly detection 22%

### New York University

Feb 2024 – Present

Student Computer Technician and Developer

New York, NY

- Automated security configuration enforcement in Bash across 700+ systems, reducing misconfigurations by 45%
- Built monitoring workflows for network reliability, enabling early detection of failure and cutting downtime by 30%
- Designed Tisch IT intranet into internal dev platform, improving tool discoverability and team efficiency

### Fortinet

Jun 2023 - Aug 2023

Software Application Intern

Sunnyvale, CA

- Detected and remediated 400+ vulnerabilities, preventing XSS, SQL injection, and privilege-escalation attacks
- Reproduced 150+ suspected flaws in sandbox environment to verify exploitability and confirm patch success
- Partnered with InfoSec to improve scanning coverage and coding patterns, increasing protected codebase by 20%

## PROJECTS

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**Orbit** | *Next.js, TypeScript, LiveKit, Vertex AI (Gemini), Docker*

Sept 2025 – Present

- Built a real-time AI tech interviewer using LiveKit for low-latency audio streaming and session orchestration
- Designed an end-to-end STT → LLM → TTS pipeline using Vertex AI and ElevenLabs for real-time voice feedback
- Implemented context-aware prompting and conversation memory to deliver structured, interview-style guidance
- Deployed a containerized Next.js application with a dedicated inference worker to isolate real-time LLM workloads

**Turtl.Bio** | *System Architecture, LLMs, Retrieval-Augmented Generation, API Design*

Aug 2025 – Present

- Led 15+ customer discovery interviews with pharma and biotech teams to understand regulatory pain points
- Leading AI and infra roadmap for a regulatory intelligence platform serving insights from 1,000+ FDA documents
- Designing scalable APIs and RAG pipelines to answer regulatory questions from FDA filings

**ASLingo** | *Python, TensorFlow, MediaPipe, OpenCV*

Feb 2025 – Aug 2025

- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

## TECHNICAL SKILLS

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**Languages:** Python, Java, Typescript, Go, C, SQL, Javascript

**Dev Tools:** React, Node.js, Tensorflow, PyTorch, Pandas, Scikit-learn, MediaPipe, OpenCV, Linux, Bash

**Cloud + DevOps:** AWS, Google Cloud, Docker, PostgreSQL, MongoDB, Cloudant, Redis

**Certifications:** AWS Certified Cloud Practitioner, IBM Accelerate Software Developer