

LUXIN ZHANG

☎ (631)538-8940 ✉ luxin.zhang92@outlook.com [in LinkedIn](#) [GitHub](#)

Full-Stack Software Engineer | AI Builder

Education

Duke University

Aug.2021 - Dec.2023

Master in Electrical and Computer Engineering

Durham, NC

Honors: Chancellor Scholarship (sole recipient, 2021); 50% Merit-based Scholarship

Stony Brook University

Aug.2018 - Jul.2021

Bachelor of Science in Applied Mathematics and Statistics

Stony Brook, NY

Honors: Dean's List with GPA of 3.84, Graduated **Magna Cum Laude**

Technical Skills

Languages: Python, TypeScript, JavaScript, C#, C++, Java, SQL

Frameworks: Django, React, Node.js, FastAPI, .NET, Angular, React Native, Expo

AI/ML: OpenAI API, Anthropic API, LangChain, LangGraph, OpenCV, Yolo5, Prompt Engineering

Infrastructure: AWS, Kubernetes, Docker, Kafka, Elasticsearch, PostgreSQL, MongoDB, Nginx, CI/CD

AI Hackathons

CityPulse | 2nd Prize

Nov.2025

- Real-time urban crisis intelligence platform for city ops and insurance underwriting, enabling non-technical users to query live SF emergency data (911, EMS, 311) in plain English.
- Built **LLM-to-SQL** translation layer with **FastAPI** backend and **React** frontend; integrated **Google Maps API** for geospatial visualization and automated **PDF** report generation.

PatchPilot | Honorable Mention

Oct.2025

- Autonomous **bug-fixing agent** that ingests GitHub issues, reproduces failures, generates patches, and opens pull requests with zero human input.
- Orchestrated multi-step reasoning with **LangGraph** and **OpenAI API**; architected isolated multi-tenant execution environments via a **REST API** to support concurrent agent sessions.

Working Experience

Fortinet

Apr.2025 - Present

Software Developer II

Sunnyvale, CA

- Owned end-to-end design and delivery of core **FortiDrive** features: audit logging, file versioning, tagging, and lifecycle management, improving platform compliance, traceability, and data integrity at scale.
- Architected distributed backend services and **RESTful APIs** in **Python Django**; built high-throughput log search with **Elasticsearch**; led cloud-native deployments on **AWS** with **Docker** and **Kubernetes**.
- Delivered full-stack features end-to-end in **TypeScript**; defined cross-service API contracts and collaborated with product to translate requirements into scalable, production-ready systems.

Computer Packages Inc

Mar.2024 - Apr.2024

Software Engineer

Rockville, MD

- Built full-stack enterprise features in **C# / .NET** with **Okta SSO** and role-based access control; optimized **SQL Server** read queries and developed **RESTful APIs** for third-party integrations.
- Implemented **SSRS Reports** and refined system requirements directly with clients, translating business needs into detailed software specifications.

Duke Pratt School of Engineering

May.2023 - Aug.2023

Software Developer — Team Lead (5 Engineers)

Durham, NC

- Led a team of five to ship a **Django + React** student data management platform with paginated search, CSV bulk upload, and role-based access; configured production infrastructure with **Nginx**, **Docker**, and **Certbot HTTPS**.
- Implemented search and CSV upload with **Django REST Framework**, enabling professors to perform full **CRUD** operations over a paginated **SQLite** database.

Vivo Communication Technology Co. Ltd.

Mar.2022 - Jul.2022

Software Engineer — Computer Vision & Camera Algorithm

Shenzhen, CN

- Boosted Image Sharpness Algorithm accuracy **from 63% to 82%** using **OpenCV**, **Yolo5**, **HED**, and **68-point face extraction**; built a **Flask**-based automated scoring platform saving 2 engineering hours weekly.
- Integrated image processing algorithms into a **Python** server infrastructure, exposing results via **RESTful API** for downstream quality evaluation pipelines.

TikTok

May.2021 - Jul.2021

Data Platform Analyst Intern

Beijing, CN

- Optimized **MySQL**-based pipeline reducing CQC analysis **from one day to one minute**; analyzed a 30k-entry dataset with **Tableau** and **R**, improving platform performance by **17%**.