Lingxin Chen

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Education

Vanderbilt University – Master's in Computer Science	*August 2025 - May 2027*
Wheaton College – Bachelor's in Computer Science, *cum laude*	*August 2018 - May 2022*

Technical Skills

Languages & Databases: Python, Java, C#, JavaScript/TypeScript, Swift, SQL (PostgreSQL, MySQL)
Frameworks & Libraries: React, Next.js, Node.js, .NET, Flask, FastAPI, REST, OpenAI APIs
AI/ML & Data: PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, Hugging Face, PySpark/Spark, LLMs, RAG, Prompt Engineering, Vector Databases, Data Visualization (Tableau, Recharts)
Cloud & DevOps: AWS (EC2, S3, ECS), Docker, Kubernetes, CI/CD, Git, Agile/Scrum, OAuth2

Work Experience

Full Stack Software Engineer, SIL Global – Nashville, TN   August 2022 - May 2025

- Enhanced the user experience for 10K+ users by shipping 10+ features for Paratext 9.4-9.6 using C#/.NET and WPF; collaborated with UX designers in an Agile environment to build a whitespace editing tool that **reduced user editing time by 15%**.
- Resolved **120+ full-stack issues** by implementing robust error handling in the JavaScript data flow and creating new health check endpoints for core REST APIs, reducing bug reports by **30%**.
- Improved system stability by writing **60+ unit tests** and optimizing CI/CD pipelines (TeamCity, GitHub Actions) to achieve a **95%+ build success rate**.

Software Engineer Intern, SIL Global – Waxhaw, NC **– GitHub Repository | Live Website**   June 2022 – August 2022

- **Led a 3-member intern team** to design and build a QA/support platform for **2,000+ users**, adding 11 custom plugins and **OAuth 2.0** login integration using **PHP (Q2A).**
- Executed a flawless migration of **1,000+** user records by meticulously mapping over 30 tables from Postgres to MySQL, ensuring **100%** data integrity.
- Deployed and scaled the platform via Docker, Kubernetes, Rancher, and **AWS**, maintaining **99.9% uptime** under production load and onboarding future interns with detailed docs.

Lab Assistant for Intro to Programming, Wheaton College – Wheaton, IL   August 2021 - May 2022

- Mentored **30 students** in Java and OOP through hands-on lab and debugging.

Software Developer Intern, Yuhuan Rural Commercial Bank – Taizhou, China   June 2021 - August 2021

- Developed a cross-platform employee portal **(2,000+ users)** using React and Node.js.
- Integrated MySQL backend; cut load time by **40%** and improved UI consistency across platforms.

PROJECTS

Daycare Policy Navigator – GitHub Repository   August 2025 - Present

- Developed a full-stack Retrieval-Augmented Generation (**RAG**) application leveraging Python (**FastAPI**), React (Next.js), and AWS (S3, ECS) to enable parents to query daycare policies in natural language.
- Integrated advanced AI/ML techniques, combining a vector database (Qdrant), transformer embeddings, LLM APIs, prompt engineering, Cross-Encoder re-ranking, and RAGAS evaluation to improve accuracy
- Built scalable data pipelines with **PySpark/Spark**, optimizing large database queries for analytics and reporting to support high-volume data processing.

Domain Sentry – GitHub Repository   September 2025

- Secured a **$2,500** prize at the AiTinker Hackathon by architecting and delivering a full-stack Python/Flask application with a PostgreSQL backend, all containerized with **Docker** within **48 hours**.