

FEI LIN

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EDUCATION

CUNY Brooklyn College

Brooklyn, NY

Bachelor of Science in Computer Science, Minor in Data Science

Expected: Spring 2026

Coursework: Data Structures, Algorithm, Artificial Intelligence, Machine Learning, Calculus I - II, Software Engineering

EXPERIENCE

Software Engineer

July 2024 – Present

CUNY Tech Prep Fellow

Remote

- Engaging in weekly courses to learn and apply industry best practices, including **MVC architecture, version control with Git/GitHub, Agile & Scrum methodologies using Trello and Slack**, test-driven development (TDD), and **CI/CD pipelines**
- Completed **50+** HackerRank challenges in algorithmic problem-solving and data structures, improving problem-solving speed by **30%** and strengthening software engineering expertise within **three months**.

PROJECTS

Alexandria - Bookstagram

GitHub

Python, Django, PostgreSQL, AWS, Docker, Kubernetes, Next.js, React

- Developing a high-performance, multi-user book discovery and community platform, leveraging **Django, PostgreSQL**, and **React** to support **millions** of book records and **thousands** of concurrent users. and seamless user engagement.
- Designed database schema, improving query efficiency by **30%** and reducing data retrieval time.
- Integrated **third-party book APIs** to enhance search capabilities, increasing **user engagement by 25%**.
- Implemented **Docker** and **Kubernetes** for automated deployments, ensuring **scalability** and **CI/CD efficiency**.

Emotionfy - AI-Powered Music Recommendation

GitHub

Tensorflow, Python, React, CNN

- Built an **AI-powered song recommendation system** by implementing **CNN-based facial recognition** to analyze user emotions.
- Achieved **85% classification accuracy** by training on **35,000+ facial images**, improving real-time recognition speed.
- Optimized **Flask API calls**, reducing response latency by **40%**, enabling seamless user experience.
- Integrated **Spotify API** to dynamically generate personalized playlists, enhancing recommendation accuracy.

CICERO - AI Tutor with Retrieval-Augmented Generation (RAG)

GitHub

React, NextJS, Python, Pinecone, Firebase

- Developed an **AI-powered tutoring system** leveraging **Retrieval-Augmented Generation (RAG)** for accurate knowledge extraction.
- Implemented **Pinecone vector search**, reducing **irrelevant responses by 40%**, improving AI response accuracy.
- Designed an interactive **Next.js** and **React** frontend for real-time student interaction, improving usability.
- Integrated **Firebase authentication** and **real-time database** to ensure secure and scalable data storage.

EXTRACURRICULAR

Google - Software Engineer Program

Feb 2025 - Present

Google X Basta

Hybrid

- Selected as one of the outperforming participants out of **1200+** applicants, developing advanced solutions for complex algorithmic problems, enhancing technical readiness by participating in mock interviews and receiving detailed feedback
- Completed **50+** data structure and algorithm challenges on HackerRank in one month, achieving a **90%** success rate on medium-difficulty problems and increasing confidence in technical interview performance.

Defang Campus Advocate

March 2025 - Present

Defang Software Lab

On-Site

- Selected as a Defang Campus Advocate, representing Defang at my University
- Promoting cloud-native development and streamlined cloud deployments to students and developers
- Advocating for modern cloud deployment practices

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C/C++, HTML/CSS

Frameworks/Libraries: Springboot, Bootstrap, Next.js, React, Tailwind CSS, Pandas, Numpy

Database Management: SQL, Supabase, Firebase, MySQL, PostgreSQL, MongoDB

Developer Tools: Git, Postman, Bash, Jira, AWS, Docker, Kubernetes