LINDA CHEN
UIUC · B.S. in Computer Science (Expected May 2025) · Champaign, IL
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SUMMARY
Computer Science new graduate from UIUC with a passion for machine learning, large-scale systems, and information retrieval. Developed multiple end-to-end projects involving low-latency services, data pipelines, and ML models. Eager to contribute to Amazon Advertising's Off-Search Sourcing & Relevance team.

EDUCATION
University of Illinois Urbana-Champaign (UIUC)
Expected May 2025
Bachelor of Science in Computer Science
• GPA: 3.8/4.0
• Relevant Coursework: Machine Learning; Information Retrieval; Data Structures & Algorithms; Distributed Systems; Database Systems; Operating Systems; Statistics

TECHNICAL SKILLS
Programming: Python, Java, C++, JavaScript/TypeScript, SQL
Frameworks: Flask, FastAPI, React, Node.js
Data & ML: Elasticsearch (BM25 & vector), Scikit-learn, TensorFlow, pandas, NumPy
Systems & Infra: Docker, Kubernetes, AWS S3, Redis, RabbitMQ, Nginx
Tools: Git, Linux, REST APIs, JSON, Jenkins CI, Prometheus, Grafana

SELECTED PROJECTS
Campus Product Recommender (Python, Flask, Elasticsearch, React)
Jan–May 2024
• Built a personalized recommendation service for campus bookstore items using Elasticsearch's BM25 ranking and vector embeddings.
• Designed a REST API with Flask to serve top-K recommendations under 50ms latency; integrated with React frontend for demo.
• Implemented logging and basic A/B test harness to measure click-through improvements in simulated scenarios.

Ad Click Predictor (Python, Scikit-learn, TensorFlow)
Sep–Dec 2023
• Collected and preprocessed a dataset of 1M synthetic ad impressions; engineered 50+ features (user, item, context).
• Trained gradient-boosted decision trees and a simple neural network to predict click probability; achieved ROC-AUC of 0.87.
• Deployed model as a microservice with FastAPI and Docker; included health checks and automated scaling tests.

Distributed Logging Pipeline (Go, Kubernetes, RabbitMQ, Prometheus)
May–Aug 2023
• Developed a log-aggregation pipeline: application containers → RabbitMQ → Go-based workers → Elasticsearch.
• Containerized components with Docker and deployed on a local Kubernetes cluster; set up

Prometheus/Grafana for metrics.
• Ensured end-to-end latency under 200ms for log ingestion and indexing; added retry/backoff and alerting rules.

S3-like Storage Simulator (Python, AWS S3 SDK, SQLite)
Jan–May 2023
• Simulated a lightweight object store with S3-compatible API using Flask and SQLite; supported multipart uploads, list, delete.
• Wrote automated integration tests in Pytest; documented API spec and provided Docker Compose for easy local testing.

ADDITIONAL EXPERIENCE
Teaching Assistant, CS 225: Data Structures & Algorithms Aug 2023–May 2024
• Led weekly discussion sections of 30+ students; designed exercises and clarified algorithmic concepts.
• Held 50+ office hours helping students debug code and optimize data structures.

HackIllinois Participant Feb 2024 & Feb 2023
• Collaborated on 24-hour hackathon projects; won “Best ML Hack” in 2024 for a real-time tweet sentiment tracker.

LEADERSHIP & ACTIVITIES
• UIUC Machine Learning Club: Peer mentor and workshop co-organizer
• Women in Computing Society: Outreach coordinator; hosted tech panels for underrepresented students
• Volunteer: Champaign-Urbana Code for Good community coding events

HONORS & AWARDS
• Dean’s List, UIUC (Fall 2022, Spring 2023, Fall 2023, Spring 2024)
• ACM ICPC Regional Contest, UIUC Team (2023) — Quarterfinalist

WORK AUTHORIZATION
• Eligible for CPT/OPT; no current restrictions