

# Lelin Zheng (She/Her)

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## EDUCATION

### Northeastern University

Sep 2024 – May 2027

**M.S. in Computer Science**, GPA: 4.0 / 4.0

Seattle, WA

Relevant Coursework:

Object-Oriented Design, Computer Systems, Algorithms, Database Management Systems, Cloud Computing

### University of Alberta

**B.Ed. in Education with Distinction**, GPA: 3.8 / 4.0

Sep 2020 – May 2022

**M.S. in Materials Engineering**, GPA: 4.0 / 4.0

Sep 2017 – May 2019

Edmonton, AB

## TECHNICAL KNOWLEDGE

- **Languages:** Python, Java, C, JavaScript, HTML/CSS, SQL
- **Tools & Frameworks:** Spring Boot 3, Spring Cloud (Gateway, Eureka, Config), Resilience4j, Hibernate (JPA), Angular 18, React, Node.js, Express.js, Sails.js, EJS, Bootstrap, Flask, Django, PyQt6, Java GUI (AWT & Swing), Kubernetes, Linux/Unix, Git
- **Testing & Observability:** JUnit, Jest, Supertest, WireMock, OpenTelemetry, Grafana Stack
- **Databases & Services:** MySQL, SQLite, MongoDB Atlas, AWS, Vercel, Render

## RELEVANT WORK EXPERIENCE

### Software Engineer Intern

May 2025 – Aug 2025

Jetsweat Inc.

New York, NY

- Designed and implemented **RESTful APIs** with **Node.js**, **Express.js**, and **MySQL** to surface user-level analytics and a white-label admin toggle, delivering actionable data for 50+ corporate partners.
- Revamped the user onboarding modal using **React**, **Redux**, and **CSS** Modules to enhance UX clarity and flow, integrating new health-topic data sources for personalized video recommendations, resulting in a 25% increase in user engagement with platform content.
- Enhanced the admin dashboard using **JavaScript**, **EJS**, and **Bootstrap**, enabling real-time video engagement tracking, diagnosing and resolving 10+ production issues, and boosting internal support efficiency by 30%.

### High School Computer Science Teacher

Sep 2022 – Jun 2024

Calgary Board of Education, Crescent Heights High School

Calgary, AB

- Taught Computer Science to 100+ students in grades 10 and 11, covering programming fundamentals, algorithms, procedural and functional programming, **OOP** in **Python**, and **HTML/CSS** for web development.
- Developed a **Python**-based scheduling application that efficiently organized a 10-team inter-school badminton tournament, reducing manual coordination time by over 80% and ensuring conflict-free match scheduling.

## PROJECTS

### NextGen-Online-Shop: Spring Boot 3 Microservices Online Shopping Platform

- Designed and implemented four **Spring Boot 3** microservices (Product, Order, Inventory, Notification) behind a **Spring Cloud Gateway**, leveraging **Eureka**, **Spring Cloud Config**, and **Resilience4j**, containerized with **Docker** and deployed on **Kubernetes**, resulting in 99.9% service availability.
- Built observability and an event-driven architecture with **OpenTelemetry**, the **Grafana** stack (**Prometheus**, **Grafana**, **Loki**, **Tempo**), **Apache Kafka**, and **Keycloak**, validated via **Testcontainers** & **WireMock**—cutting mean time to resolution by 50%.

### Qualcomm On-Device AI Hackathon: AI-Powered Narrative Connect Four (2nd Place Winner)

- Engineered a **PyQt6-based GUI** with multi-threaded event handling for a responsive and interactive **LLM-integrated** Connect Four game experience, featuring dynamic UI updates and real-time AI narration.
- Integrated **local LLM inference via Ollama (Mistral-7B)** with game logic algorithms (minimax with alpha-beta pruning), implemented speech-to-text (**Whisper ASR**) for AI-driven commentary for a seamless offline experience.

### Task Master: Full-Stack To-Do List

- Developed a full-stack task management app using **React**, **Node.js**, **Express.js**, **MongoDB Atlas**, and **Bootstrap**, featuring **JWT authentication**, protected routes, and **RESTful APIs** for full CRUD functionality.
- Tested backend with **Jest** and **Supertest**; deployed frontend on **Vercel** and backend on **Render**, with environment configuration via **dotenv** for secure production readiness.