Lelin Zheng

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EDUCATION

Master of Science in Computer Science (Align Program)

Northeastern University, WA

- Sep 2024 - Dec 2026 (Expected)
- GPA: 4.0/4.0

Courses:
CS 5001 Intensive Foundations of Computer Science
CS 5002 Discrete Structures
CS 5004 Object-Oriented Design
CS 5008 Data Structures, Algorithms, and Their Applications within Computer Systems

Bachelor of Education (After-degree) with Distinction

University of Alberta, AB

- Sep 2020 - May 2022
- GPA: 3.8/4.0

Master of Science in Materials Engineering

University of Alberta, AB

- Sep 2017 - Sep 2019
- GPA: 4.0/4.0

SKILLS

- Python - Proficient Level
- Java - Proficient Level
- HTML/CSS - Intermediate Level
- JavaScript - Intermediate Level
- C Language - Intermediate Level
- Data Analysis
- Database

RELEVANT WORK EXPERIENCE

High School Computer Science Teacher

Calgary Board of Education, Crescent Heights High School

- Sep 2022 - Jun 2024

- Taught Computer Science Course for over 100 grade 10/11students: a foundational course covering basic programming concepts, procedural and functional programming in Python, as well as HTML/CSS for web development.

Research Assistant

University of Alberta

- Oct 2019 - Sep 2020

- Analyzed data from over 200 tensile, UV degradation, and compression tests to develop an end-of-life sensor for textiles, delivering degradation warnings at 50% and 80% deterioration thresholds

PROJECT EXPERIENCE

Gesture-Based Music Creation App in Java

Northeastern University

- Sep 2024 - Dec 2024

- Developed an interactive interface for composing music through gesture recognition, incorporating over 20 musical elements such as notes, rests, bars, and staff, enhancing user engagement beyond traditional button-based inputs.

- Implemented extensive OOP principles to create gesture-recognition tools, resulting in a 60% increase in speed for music composition compared to traditional methods, with a flexible framework for music composition.

Climate Resiliency Hackathon

Northeastern University

- Oct 2024

- Analyzed five multi-layered data, including socioeconomic and environmental risk factors, to pinpoint optimal emergency shelter locations in King County for over 10,000 high-risk community members.

- Created interactive visualizations to reveal correlations between extreme weather risks and community vulnerability, supporting data-driven decisions-making.

Sports Team Management System Wed App

Udemy Online Learning

- Oct 2024

- Developed a Python-based web application that streamlines team management for over 50 players, enabling managers to efficiently add, update, and track player information while providing an intuitive interface for organizing rosters and scheduling events.

SELECTED HONORS

- **Captain Thomas Farrell Greenhalgh Memorial Graduate Scholarship**
University of Alberta, 2017
- **Outstanding Graduate**
Sun Yat-sen University, 2017
- **National Scholarship for Academic Performance**
Sun Yat-sen University, 2014