Lelin Zheng

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EDUCATION

Northeastern University – Seattle, WA   Sep 2024 – Dec 2026 (Expected)
Master of Science in Computer Science (Align Program), GPA: 4.0 / 4.0
Relevant Coursework: Computer Systems, Algorithms, Object-Oriented Design,
Discrete Structures

University of Alberta – Edmonton, AB   Sep 2020 – May 2022
Bachelor of Education (After- degree) with Distinction, GPA: 3.8 / 4.0

University of Alberta – Edmonton, AB   Sep 2017 – May 2019
Master of Science in Materials Engineering, GPA: 4.0 / 4.0

TECHNICAL KNOWLEDGE

- **Languages:** Python, Java, C, HTML/CSS, JavaScript
- **Tools & Frameworks:** Git, Swing, Tableau, PyQt
- **Databases:** MySQL, SQLite

RELEVANT WORK EXPERIENCE

High School Computer Science Teacher   Sep 2022 – Jun 2024

Calgary Board of Education, Crescent Heights High School, Calgary, AB

- Taught Computer Science to 100+ grade 10/11 students, covering programming fundamentals, algorithms, procedural and functional programming, OOP in Python, and HTML/CSS for web development

- Achieved a 15% improvement in student grades through tailored instruction and engaging programming assignments, fostering a deeper understanding of computer science fundamentals.

Research Assistant   Oct 2019 – Sep 2020

University of Alberta, Edmonton, AB

- 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

PROJECTS

Gesture-Based Music Creation App in Java   Sep 2024 – Dec 2024
Northeastern University
- Developed an interactive interface for composing music through gesture recognition, utilized 20+ classes to model musical elements such as notes, bars, and staff, enhancing user engagement beyond 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   Oct 2024

Northeastern University
- *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 using Tableau to reveal correlations between extreme weather risks and community vulnerability, supporting data-driven decisions-making.*

Sports Team Management System Web App   Oct 2024 – Dec 2024

Udemy Online Learning
- 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.