

# Lipepei Sun

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## Skills and Qualifications

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**Programming Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, and Bootstrap.

**Cloud Technologies:** AWS services including S3, Lambda, and DynamoDB.

**Programming Tools:** Git, Node.js, Jupyter Notebook, IntelliJ IDEA, CLion, and VS Code.

**Software Development:** Object-Oriented Design, algorithms, and data structures.

## Education

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### Northeastern University

Expected December 2025

- Master of Science in Computer Science (GPA 4.0)
- Relevant Coursework: Object-Oriented Design, Data Structures, Algorithms, Discrete Structures.

### University of Washington

2009 - 2016

- Master of Architecture (GPA 3.67)
- Bachelor of Arts in Architecture (GPA 3.66)

## Projects

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### Building Monitor System

2024

- Developed an environmental monitoring system for Northeastern University classrooms.
- Implemented AWS DynamoDB for data storage and Lambda for data processing.
- Built sensor devices to collect temperature, humidity, CO2 level, and PM2.5 data.

### Santa Cross the Street Game

2023

- Designed and implemented a Python-based interactive game with a GUI using Object-Oriented Programming.
- Implemented robust error handling, unit testing, and efficient code organization.

### Building Façade Layouts and Optimization

2023

- Applied discrete mathematics and Python programming, along with Matplotlib for visualization, to optimize building façade layouts for the University of Washington Health Sciences Education Building, prioritizing natural light and aesthetic appeal.

## Work Experience

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### Research Apprenticeship, Computing Research Association

Present

- Conducted research on using large language models (LLMs) to create interactive personas for sensitive user groups with health conditions.
- Currently performing literature review, designing, and implementing an LLM-based interactive persona for human-centered design, and conducting a pilot evaluation study.

### Licensed Architect, Miller Hull Partnership, Seattle

2015 – 2023

- Collaborated with cross-functional teams to develop and implement innovative design solutions.
- Led visualization efforts, delivered compelling design presentations, and effectively communicated technical concepts to diverse stakeholders.

### Teaching Assistant, University of Washington, Seattle

2014

- Facilitated design and graphic workshops and mentored students in design software.

## Certifications and Volunteer Experience

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- AWS Certified Cloud Practitioner
- Registered Architect in Washington, LEED Green Associate Credential
- Volunteered with ACE Mentor Program, Food Lifeline, and Miller Hull Open Studio.