

Lipepei Sun

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Skills and Qualifications

Programming Languages: Python, Java, C/C++, HTML, CSS, JavaScript, React, SQL, PostgreSQL, MongoDB

Cloud Technologies: AWS services including S3, Lambda, DynamoDB

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

Development: OOD, algorithms, data structures, RESTful APIs, full-stack web development

Research Experience: Large Language Models, Human-Computer Interaction, Human-Centered Design

Education

Northeastern University

Expected 2026

Master of Science in Computer Science – Align (GPA 3.9)

- Relevant Coursework: OOD, Data Structures, Algorithms, Web Development, Operating Systems

University of Washington

2009 - 2016

Master of Architecture (GPA 3.7) | Bachelor of Arts in Architecture (GPA 3.7)

Work Experience

Full-Stack SDE Intern, Capital Technology Group

Summer 2024

- Designed and implemented scalable web applications for analyzing government contract protest decisions using Java, Spring Boot, and Docker in an agile environment.
- Built RESTful APIs and developed front-end web interfaces with React and Typescript, integrating them with back-end search features using Elasticsearch, PostgreSQL database, GitHub, AWS ECR and S3.

Research Assistant/ Apprenticeship, Northeastern University

Present

- Conducted research on using large language models (LLMs) to create interactive personas.
- Conducted user interviews and contributed as the first author for research paper, [Persona-L has Entered the Chat: Leveraging LLM and Ability-based Framework for Personas of People with Complex Needs](#), which has been **accepted by CHI 2025**.

Licensed Architect, Miller Hull Partnership, Seattle

2015 – 2023

- Collaborated with cross-functional teams to develop and implement innovative design solutions.
- Managed project visualizations and communicated technical concepts effectively to diverse stakeholders.

Projects

Post App

2024

- Built and deployed a full-stack social media app using Node.js, Express, React, and MongoDB, featuring RESTful APIs, secure cookie-based authentication, and user-centric features like chronological post viewing and profile pages.
- Designed a responsive, user-friendly front-end interface with seamless navigation, leveraging HTML, CSS, and JavaScript for optimal performance across devices and screen sizes.

Building Monitor System

2023—Present

- Developed an environmental monitoring system using AWS DynamoDB and Lambda.
- Built sensor devices to collect temperature, humidity, CO2 levels, and PM2.5 data.

Building Façade Layouts and Optimization

2023

- Applied discrete mathematics and Python programming, along with Matplotlib for visualization.

Certifications and Volunteer Experience

- AWS Certified Cloud Practitioner
- Volunteered with ACE Mentor Program, Food Lifeline, and Miller Hull Open Studio