

YU (MEREDITH) LUO

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🐙 github.com/mereluo

Education

Master of Science in Computer Science

Jun. 2025 (Expected)

Northeastern University

Seattle, WA

Certificate in Computer Science

Jun. 2023

Seattle University GPA: 4.0/4.0

Seattle, WA

Master of Education, Measurement and Statistics

Jun. 2022

University of Washington GPA: 3.9/4.0

Seattle, WA

Relevant Coursework

- Advanced Algorithms
- Data Structure
- Object-Oriented Programming
- Computing System Principles
- Database Management
- Software Development

Technical Skills

Bank-end: Python, Java, C++, C#, FastAPI, R, Express, MongoDB, MySQL

Front-end: CSS, HTML5, JavaScript, React, Next.js

OS and Tools: Linux, Git, IntelliJ, VS Code, CLion, Docker

Work Experience

Teaching Assistant

Dec. 2022 – Present

Supervisor: Prof. Matthew Thayer

Seattle University

- Supported instruction for CPSC 5001 and CPSC 5002: Programming Boot Camp I and II, teaching Java programming
- Conducted thorough and constructive feedback on assignments, maintaining consistent grading standards
- Provided individual and group tutoring sessions, clarifying programming concepts and troubleshooting coding challenges

Graduate Research Assistant

Jun. 2020 – Jun. 2022

PI: Dr. Min Li, College of Education

University of Washington

- Collaborated with UW Computer Science department and ETS on math and programming education research
- Analyzed extensive keystroke data from 220 undergraduate students' programming assignments
- Utilized data visualization tools, such as Python libraries (e.g., Matplotlib, Seaborn), to facilitate easier interpretation and communication of findings

Personal Projects

Personal Portfolio Website | JavaScript

Apr. 2023

- Developed an intuitive and interactive personal portfolio website using React JS, Bootstrap, and RxJS
- Implemented dynamic navigation display and call-to-action buttons to enhance user experience using RxJS
- Utilized Node JS to enable email capabilities through Node Mailer, creating a full-stack application deployed on Heroku server and GitHub

StoryLand (Online Story Book) | JavaScript

Mar. 2023

- Conceptualized and developed StoryLand, an engaging web application using React JS to generate personalized and age-appropriate stories for children aged 5-10
- Leveraged the OpenAI API to dynamically create captivating stories and high-quality illustrations based on children's prompts, ensuring a tailored and immersive reading experience

SeattleBot (Facebook Messenger Bot) | Python

Jan. 2023

- Developed a bot using FastAPI and Python, integrating it with Facebook, Yelp, and OpenWeatherApi via webhooks
- Delivered personalized recommendations for restaurants based on user cuisine preferences, utilizing data from Yelp API
- Deployed and maintained the bot's functionality and security through GitHub CI/CD actions, Docker, and DigitalOcean

CapitolCraving (mySQL Database System) | SQL, Java

Oct. 2022

- Designed and implemented a robust relational database system using SQL to efficiently manage and analyze data for local cookie bakeries
- Enhanced data processing efficiency by applying advanced SQL techniques, including sub-queries and stored procedures
- Developed a user-friendly GUI application using Java and JDBC to visualize and interact with the database contents