# Yu (Meredith) Luo

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## Education

**Master of Science in Computer Science** — **May 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
- Computing System Principles
- Data Structure
- Database Management
- Object-Oriented Programming
- Software Development

## Technical Skills

**Bank-end**: Python, Java, C++, C#, R, FastAPI, Express.js, Node.js
**Front-end**: CSS, HTML5, JavaScript, React.js, Next.js, TypeScript
**Database**: MongoDB, mySQL, PostgreSQL
**OS and Tools**: Linux, Git, IntelliJ, VS Code, CLion, Postman, Docker

## Personal Projects

**Face Identifier | JavaScript** — **Jul. 2023**
- Developed a secure full-stack web app that enabled user registration, login, and accurate detection of multiple faces from picture URLs using the Clarifai API
- Employed PostgreSQL for efficient user data storage and retrieval; designed robust database tables and implemented a RESTful API using Express.js
- Achieved reliable hosting by deploying app on Render, ensuring seamless user access

**Personal Portfolio | 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 | Python** — **Jan. 2023**
- Developed a FaceBook Messenger bot using FastAPI, integrating it with 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

## Work Experience

**Teaching Assistant** — **Dec. 2022 – Mar. 2023**
*Supervisor: Prof. Matthew Thayer* — *Seattle University*
- Supported instruction for CPSC 5001 and CPSC 5002: Programming Boot Camp I and II, teaching Java programming
- Provided thorough and constructive feedback on assignments, maintaining consistent grading standards
- Conducted 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