# Yuning Sun (Edward)

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## Education

**Simon Fraser University (SFU)** — Burnaby, B.C., Canada
M.Sc., Computing Science — 01/2025 - Present

**Zhejiang University (ZJU)** — Ningbo, Zhejiang, China
M.Eng., Software Engineering — 09/2023 - Present

**Sun Yat-sen University (SYSU)** — Guangzhou, Guangdong, China
B.Sc., Opto-Electronics Information Science and Engineering — 09/2018 - 06/2023

## Experience

**ixLab @ SFU** — Burnaby, B.C., Canada
Research Assistant — 05/2025 - Present
- Applied user interviews and qualitative coding to investigate streaming and gaming experiences of people with disabilities in an Human-Computer Interaction research project.

**School of Computing Science @ SFU** — Burnaby, B.C., Canada
Teaching Assistant — 05/2025 - 08/2025
- CMPT 225 Data Structures and Programming (C++)

**VIPA Lab @ ZJU** — Ningbo, Zhejiang, China
Research Assistant — 07/2023 - 01/2025
- Developed a medical image analysis model combining deep learning and handcrafted computer vision features, enhanced by Multiple Instance Learning.
- Developed the front end of a web application for remote sensing image monitoring and analysis, leveraging React/UmiJS and WebGL.

**School of Physics @ SYSU** — Guangzhou, Guangdong, China
Undergraduate Research Assistant — 10/2022 - 06/2023
- Performed mathematical derivation and analysis of Backpropagation and Gradient Descent algorithms.
- Developed a Multi-Layer Perceptron from scratch to identify handwritten digits, without using existing deep learning frameworks.

## Selected Projects

**Operating Systems Labs (self-study, Nanjing University Open Course)**
- https://github.com/yuningsuen/os-labs
- Completed multiple labs covering process management, memory allocation, threading, file systems, and simple HTTP server implementation.
- Gained hands-on experience in C programming, system calls, multi-threading, and Linux OS internals.

**The Complete Full-Stack Web Development Bootcamp (self-study, Udemy Open Course)**
- Completed multiple full-stack web development projects, leveraging front-end (JavaScript, jQuery, React), back-end (Node.js, Express.js, EJS, RESTful API), and PostgreSQL for efficient database management.

**Personal Website**
- https://specialchinjaorosu.com
- Developed a React/Next.js web app as a personal blogging platform with dynamic content rendering.
- Deployed with Vercel and AWS.

**GenReview**
- https://github.com/yuningsuen/gen-review
- Developed a React/Next.js web app integrating Google Gemini and Maps API to generate draft reviews, simplifying customer review submissions.

**Arch Linux**
- Installed and configured Arch Linux following official manuals, showcasing problem-solving skills and ability to learn complex systems from documentation.