

YUNING SUN (EDWARD)

yuning_sun@sfu.ca ◇ GitHub ◇ LinkedIn

EDUCATION

Simon Fraser University

M.Sc., Computing Science

Burnaby, B.C., Canada

01/2025 - Present

Zhejiang University

Master of Software Engineering

Ningbo, Zhejiang, China

09/2023 - Present

Sun Yat-sen University

B.Sc., Opto-Electronics Information Science and Engineering

Guangzhou, Guangdong, China

09/2018 - 06/2023

EXPERIENCE

ixLab @ SFU

Research Assistant

Burnaby, B.C., Canada

05/2025 - Present

- Applied user interviews and qualitative coding to investigate streaming and gaming experiences of people with disabilities in an HCI research project.

School of Computing Science @ SFU

Teaching Assistant

Burnaby, B.C., Canada

05/2025 - 08/2025

- CMPT 225 Data Structures and Programming (C++)

VIPA Lab @ ZJU

Research Assistant

Ningbo, Zhejiang, China

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/UmJS and WebGL.

School of Physics @ SYSU

Undergraduate Research Assistant

Guangzhou, Guangdong, China

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 COURSEWORK & 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 through project-based exercises.

The Complete Full-Stack Web Development Bootcamp (self-study, Udemy Open Course)

- Completed full-stack web development projects, gaining hands-on experience in front-end (JavaScript, jQuery, React), back-end (Node.js, Express.js, EJS, APIs), and PostgreSQL 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 full AWS stack (EC2, S3, CloudFront, Route 53).

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 from scratch following official manuals, showcasing problem-solving skills and ability to learn complex systems from documentation.