

Peisong Xiao

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Work Experiences [in/peisong-xiao-a634832b1/](https://in.linkedin.com/in/peisong-xiao-a634832b1/) github.com/PeisongXiao

Nokia IP Router Platform Testing Dev Student (Satellite Team) **Ottawa** 09/2024 - 12/2024

- Received training on **IP-based networks** and related tools.
- Wrote/modified various scripts to **automate** regression testing.
- Constructed new framework **reducing setup time** for regression testing by up to 60%.
- Designed new testing framework to **reduce code duplication** by 80% and **increased test coverage by 500%**.
- Transferable skills: Linux, Tcl, scripting, **network infrastructure**, IP routing, **teamwork**, **software design**.

Side Projects

cc3k - Sequentially Generated Dungeon Crawler ([GitLab - contact for access token](#)) 06/2024 - 07/2024

- An interactive TUI game that explores a sequentially generated dungeon (rogue-like).
- Abundant additional content on top of original project requirements
- Transferable skills: C++, object-oriented design/programming, algorithm design, team collaboration, git.

coin - Multithread Web Scraper ([GitHub](#)) 01/2024 - 03/2024

- An interactive GUI program that scrapes the web for item info to help keep track of items on Walmart receipts.
- Sped up my workflow of keeping track of Walmart receipts by 60%
- Transferable skills: python, OCR, OpenCV, PyQt6, Web scraping (Selenium), object-oriented programming

Box Sum 10 to Reduce - React-based Game ([Deployment](#)) 09/2024 - 10/2024

- A simple game built using **React** and hosted on my personal server.
- **Designed sequential generation algorithm** to guarantee a solution.
- Transferable skills: JavaScript, React, algorithm design.

Awards & Certifications

2020 National Olympiad in Informatics (NOIP 2020) 2nd Prize 12/2020

Relevant skills: C++, data structures and algorithm design.

CSP-J Programming Skills Attestation (Formerly known as NOIP) 1st Class 12/2019

Relevant skills: C++, data structures and algorithms design.

National Standards Olympiad for Teens (China) 2nd Place 08/2021

Relevant skills: Analytical thinking, teamwork, creative problem-solving, presentation

The 11th Jeju Youth Forum Certificate of Participation 11/2020

Relevant skills: Communication, adaptability.

Relevant Experiences

Linux environments Building and maintenance 01/2020 - Present

- Built my own Linux environment for daily use based on vanilla ArchLinux and maintains Ubuntu server for remote use.
- Wrote/modified various scripts to automate many daily and productivity tasks.
- Relevant skills: Linux, bash/python scripting, software patching

Computer and Robotics Club at FZYZ Project team leader 11/2021 - 8/2022

- Led group projects on programming Arduinos using C++ as extracurricular studies for club members.
- Designed creative activities that incorporated knowledge and hands-on experiences
- Relevant skills: Teamwork, leadership, analytical thinking, interpersonal communication, C++, low-level programming.

Skills Summary

- **Hard skills**: C/C++, python, JavaScript, Java, Tcl, data structures, algorithm design, linear programming, Git, React, Django, object-oriented programming, test automation, Linux, scripting, web scraping, Qt6.
- **Soft skills**: analytical thinking, self-motivator/self-starter, passion, adaptability, teamwork, interpersonal communication, conflict resolution, time management, organized, leadership, motivating others, presentation.

Education

Bachelor of Computer Science GPA: 3.9/4.0 [University of Waterloo](#) **Waterloo, Canada** Present

Relevant Courses: Object-Oriented Software Dev., Intro. to Optimization, Designing Functional Programs, Elem. Algo. Design & Data Abstraction, Data Structures & Mgmt., Computer Organization & Design, Foundation of Sequential Programs, Logic & Computation, Statistics, Interpersonal Communication.