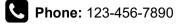
JOE NOBODY









Experience

University of Waterloo

Instructional Support Assistant

Waterloo, ON, Canada

August 2022 ~ December 2022

- ➤ Designed and tested proprietary configuration files for the auto-grading system, Lint R, to assess and provide feedback on students' assignments, saving over 70% of manual grading time.
- ➤ Developed two Batch scripts to extract and integrate students' assignment completion status and calculate overall class score distributions, reducing spot-checking time by over 60% and minimizing potential system errors.
- ➤ Implemented a C++ program to identify students with unusually low scores, which helped identify system bugs and increased the efficiency of the Lint R system and configuration files by over 50%.
- Conducted weekly office hours, tutorials, and pre-exam review sessions, gaining extensive public speaking and teaching experience.

Litchi Future Edu Co., LTD

Technical Support Assistant Intern

Guangzhou, China

June 2021 ~ August 2021

- Inspected and made targeted suggestions about Android SES client application UI.
- Quality tested system API under Linux environment and reported errors to developers.

Guangzhou Iridescent Consulting Co., LTD

Guangzhou, China

Educational Analyst Intern

June 2021 ~ August 2021

- Produced quality educational materials covering grammar and reading comprehension. Highly appreciated by employer (reference letter included).
- Communicated with instructors to customize contents.
- Proficiently categorize and present course materials in an accessible manner.

Projects

The Game of ChamberCrawler3000+ (CC3K+)

July 2022 ~ August 2022

- ➤ Built the game from scratch in C++ with OOP. Used dynamic programming techniques with smart pointers and Standard Template Libraries (STL).
- ➤ Used **Observer Design Pattern** and **Decorator Design Pattern** to implement over **20** features of interacting with different game elements, including fighting against NPCs, using potions, trading with merchants, and equipping game props.
- Implemented several "cheat codes" that can be activated during the game to increase the game's playability. Upgraded visual experience by designing a new color-coded text display system.

VEX Robots Design & Innovation

September 2019 ~ April 2020

- Led a team of 5 as vice-captain, chief mechanist, and chief operator.
- ➤ Blueprinted, constructed, and programmed two VEX EDR robots, equipped with mechanical transmission systems and double-motor pick-up structures.
- Co-authored a complete and detailed engineering log.
- ➤ Enhanced hands-on ability, creativity, and team responsibility. Accumulated abundant experience on robotics and OOP.

Remote-controlled Paper Plane Project

September 2019 ~ December 2019

- ➤ Led the team of 5, designed and built an innovative electronic remote-controlled paper plane; introduced and exhibited at the school's science fair.
- > Authored a detailed **project report** (included in the school brochure).

Skills

> Programming languages:

C++ (main) (fluent with various STL containers (array, vector, (unordered) set & map, stack, queue, etc.), algorithms, iterators, and virtualizations),
Python, C, Racket, Java

> Tools:

MS Word, PowerPoint, Excel, Teams, LaTeX

> Webs:

Node.js, HTML, CSS, Markdown

Operating Systems:
Linux, Windows

Activities

> Competitions:

ACSL, USACO, CCC

> Projects:

VEX Engineering Log
CSP Seminar Report

Pacman Al Agents Design

Awards

- UW President's Scholarship 2021
- TOP 25% in 2020 Canadian Computer Competition (CCC), senior division
- TOP 25% in 2019 Canadian Computer Competition (CCC), junior division
- ▶ Design Award & Amaze Award & Create Award in the 12th & 13th VEX Robotics Championships (VEX EDR 2019 & 2020)

Education

Computer Science:

Candidate for Bachelor of Mathematics, Honors, Co-operative Program, University of Waterloo, Waterloo, ON May 2022 ~ April 2026

Mathematics/Financial Analysis and Risk Management:

Honors, Co-operative Program,
University of Waterloo, Waterloo, ON
Sept 2021 ~ April 2022

> Cumulative GPA: 88.50%