

JOE NOBODY

Email: test@gmail.com

Phone: 123-456-7890

LinkedIn: TEST_LINKEDIN

GitHub: TEST_GITHUB

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

Educational Analyst Intern

Guangzhou, China

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:**
[CC3K+ Game Design Project](#)
[VEX Engineering Log](#)
[CSP Seminar Report](#)
Pacman AI 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%