

# Nic Ung

Year 4, BSc. Computer Science Major

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## Technical Skills

**Programming:** Java, C/C++, OpenGL, JavaScript, Python, HTML, CSS,

**Tools/Environment:** GitHub, Bash, SQL, Docker, QEMU, VSCode, IntelliJ, Arduino IDE, Unraid, TrueNAS Scale, Wireguard, TailScale, OpnSense, CMake, OpenGL

**Testing:** GDB, JUnit, Valgrind

**Web:** Cloudflare DNS, Azure, AWS

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## Technical Work Experience

### Bastion Payment Systems Corporation

Jun. 2023– Sep. 2023

*FinTech Business Intern*

*Philippines, Makati*

- Worked closely with senior management to develop and implement a business continuity plan in the event of a catastrophic event, improving availability and ability to offer greater terms of Service Level Agreement
  - Coordinated with IT and operations teams to test, plan and begin deployment of mitigation systems.
  - Collaborated with Software Engineers to build, abstract and test internal tools to be used during a crisis.
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## Project

### Just Parry

Sep. 2024-Dec. 2024

- Designed a fighting game prototype with a responsive and consistent input for players independently and with a team.
- Developed proficiency utilizing GLM, SDL, and CMake tools for matrix operations, audio/input handling, and cross-platform compatibility respectively.
- Created a custom game engine in order to have greater control over input processing
- Applied Agile methodologies for efficient development and project management.
- Utilized leadership and communication abilities to hold weekly scrum meetings, ensuring team alignment and progression.

Skills: C++, OpenGL, Git, CMake

### Discord Emote Adder Bot

Jul. 2023

- An image processing bot that parses messages and adds user indicated images as emojis for the group it is invoked in.
- Utilized official Discord APIs via Discord.py library.
- Utilized python-dotenv libraries to define authentication keys outside of the source code.
- Extracted pointers to image included in trigger message.
- Implemented a space and time efficient way to process and compress images automatically.
- Hosted through Docker on my home server.

Skills: Python, Open Source, Virtualization, Security

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## Volunteer Experience

### UBC Esports Association

Aug. 2020 – Current

*Developer*

*Vancouver, BC*

- Helped develop and deploy a custom lounge management web app for our PC Cafe
- Maintained website domain and hosting
- Actively engaged with code reviews and pair programming sessions

*President*

- Provided leadership and oversight to a large university club, including coordinating efforts from a team over 100 people.
- Liaised between club executives and university personnel to organize room bookings, event logistics, and administrative duties.
- Organized events with a large team handling various critical aspects, throughout the entire process of creation to facilitation of events with 300+ attendees.



**Richmond Food Bank****Oct. 2019 – Mar. 2020***Volunteer**Richmond, BC*

- Sorted and packed food donations, stocked shelves, and distributed food to individuals and families in need.
  - Worked collaboratively with other volunteers to manage the flow of food donations efficiently.
  - Utilized conflict de-escalation techniques to manage and resolve conflicts.
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**Work Experience****Code Ninjas****Jun. 2024 – Aug. 2024***IT Advisor/Code Sensei**Richmond, BC*

- Architected and deployed a robust, expandable and maintainable multifunctional server
- Provided live instruction of microcontrollers, AI Training, and Lua
- Assisted with children's education of the fundamentals of computer science

**Richmond Christian School****Jun. 2022 – Aug. 2022***Administrative Assistant**Richmond, BC*

- Assisted in ensuring that all financial records were accurately maintained and up to date.
- Handled sensitive private financial and personal information.
- Managed small-scale logistics and aided with IT systems.

**Board's Boards****May 2020 – Mar. 2023***Founder**Richmond, BC*

- Founded and operated a small business selling controller modifications using 3D printed parts, Arduinos, Teensy, and Pi Picos.
  - Designed and manufactured items using CAD software and 3D printing.
  - Self-managed finances and marketing to specific niches. Skills: Python, Open Source, Virtualization, Security
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**Education****University of British Columbia****Sept. 2020 – Present***B.Sc Major in Computer Science with Co-op**Vancouver, BC***Richmond Secondary School****Sept. 2016 – June. 2020***International Baccalaureate**Richmond, BC***Soft Skills & Interests**

**Software:** Microsoft Office Suite, Google Suite, AutoCAD, KiCad, 3DSMax, Fusion360, Google Sketchup, Davinci Resolve, Notion, Sage50

**Languages:** Basic Mandarin, Basic French, Basic German

**Interests:** Emulation, Data/Media Preservation, 3D Printing, Car Tuning, Fitness, Weightlifting, Computer Building, Mechanical Keyboards, Ergonomics, Sim Racing, Martial Arts,