

# Nic Ung

Year 4, BSc. Computer Science Major

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## Technical Skills

Programming: Java, C/C++, Python, HTML, CSS

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

Testing: GDB, JUnit, Valgrind, Blackbox, Fuzzing, Mutation

Web: Cloudflare DNS, Azure (currently acquiring)

## Technical Work Experience

### Bastion Payment Systems Corporation

June 2023– Sept. 2023

*FinTech Business Internship*

*Philippines, Makati*

- Worked with senior management to develop and implement a business continuity plan in the event of a catastrophic event.
- 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.

## Project

### 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 via a Linux VM on my home server with intent to containerize and migrate to the server directly via Docker.

Skills: Python, Open Source, Virtualization, Security

## Volunteer Experience

### UBC Esports Association

Aug. 2020 – May. 2024

*Prev: 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

- 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.

## Work Experience

### Code Ninjas

Jun. 2024 – Aug. 2024

*IT Advisor/Code Sensei*

*Richmond, BC*

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

### 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*
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*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:** Fitness, Weightlifting, System Design, Emulation, Computer Building, Mechanical Keyboards, Ergonomics, Martial Arts, Data/Media Preservation