

## PROJECTS

### uniMatch

*Hackathon Project, nwHacks 2023 | 2023-01*

- Implemented the backend database (Firebase) and user authentication (Google auth) for a Vue.js college search tool that uses an interactive dating-app-style interface ([github.com/wesrchow/uniMatch](https://github.com/wesrchow/uniMatch))

### Legacy of North

*Personal Project, Burnaby North Secondary | 2020-02 – Present*

- Captured 360-degree photography of 250+ locations to preserve the school's history before demolition of the old buildings
- Developing a showcase website using HTML/CSS/jQuery and other libraries in a Google Street View style

### Writing Robot

*Science Fair, Burnaby North Secondary | 2017-10 – 2018-01*

- Designed and built a writing robot leveraging 3D printed parts and Arduino electronics such as a CNC shield, stepper and servo motors
- Implemented the writing systems using software tools: Inkscape, G-code, Arduino (C/C++), Grbl-servo firmware

## TECHNICAL EXPERIENCE

### Vice President & Workshop Director

*VikingsDev, Burnaby North Secondary | 2020-09 – 2021-06*

- Created and presented beginner Python and Python Flask workshops to 20+ students, covering the basics of programming concepts
- Coordinated the production and delivery of workshops produced by the team

### Co-Founder & Vice President

*BNS Drone Club, Burnaby North Secondary | 2016-11 – 2021-06*

- Taught 80+ students of varying skill levels about drone technology with \$5000 in PAC funding over 4 years
- Developed and conducted club meetings featuring technical lessons, hands-on with drone electronics and drone piloting instruction

### Electronics Recycling Technician

*Free Geek, Vancouver, BC | 2017-07 – 2019-09*

- Verified functionality of donated graphics cards and computer peripherals to be sold at the second-hand electronics storefront
- Dismantled computers, laptops and other electronics for recycling

### Technology Assistant

*Aquilini Group - Pizza Hut Head Office, Vancouver, BC | 2018-03*

- Configured Intel NUC point of service LINUX servers for Pizza Hut restaurants

## OTHER WORK EXPERIENCE

*Polling Clerk | Elections Canada, Burnaby, BC | 2019-09*

- Recorded voters' information, counted and validated ballots

*Fair Ambassador | Pacific National Exhibition, Burnaby, BC | 2019-08 – 2019-09*

- Patrolled and offered guest services in various locations

## EDUCATION

### BASc, Computer Engineering

*The University of British Columbia*

*Expected 2026-05*

## SKILLS

### Programming

- C/C++ (OOP)
- Python (Scripting)
- Java (& Android)
- JavaScript
- HTML/CSS
- ARM64 Assembly
- SystemVerilog
- G-code

### Software Tools

- UNIX/LINUX
- GitHub (VCS)
- JetBrains IDEs
- Google Cloud (GCP)
- JUnit
- Firebase (Database & Auth)
- SolidWorks/Inventor (CAD)
- ModelSim
- Quartus Prime

### Hardware

- Arduino/Raspberry Pi (Microcontroller/Embedded)
- Electronics/Circuits
- 3D Printing
- FPGA
- Drones
- Soldering
- Multimeter/Oscilloscope

## PORTFOLIOS

### LinkedIn

- [linkedin.com/in/wesrchow](https://www.linkedin.com/in/wesrchow)

### Hardware, Software & Media

- [instagram.com/westechacc\\_](https://www.instagram.com/westechacc_)
- [youtube.com/@Wgesh8](https://www.youtube.com/@Wgesh8)