ABDULLAH ZUBAIR

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VOLUNTEERING EXPERIENCE

Event Volunteer Ottawa, ON
Ottawa Uyghur Centre *January 1ˢᵗ, 2024*

- Helped organize the Ottawa Uyghur Centre's annual Qur'ān recitation contest
- Greeted and ushered in visitors and contest participants
- Answered questions of guests
- Skills earned: social skills, management skills

Event Organizer & Supervisor Ottawa, ON
Bangladesh Muslim Society *August 2021*

- Helped host an online art contest
- Supervised children aged 5 to 6 and answered questions via Zoom chat
- Skills earned: leadership skills, supervision of young children

EDUCATION

University of Ottawa (Current cGPA: 9.8) Ottawa, ON
Honours Bachelor of Science in Computer Science *Septemper 2024 – Present*

Colonel By Secondary School Ottawa, ON
Cumulative Average above 90% *Septemper 2021 – June 2024*

- Executive of Computing Club (a.k.a. Competitive Programming Club) in Grade 11 & 12

Ottawa Carleton Virtual Secondary School Ottawa, ON
Cumulative Average above 95% *Septemper 2020 – June 2021*

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL (MariaDB), JavaScript (Node.js), TypeScript, HTML/CSS, LaTeX
Frameworks: Spring Boot, Angular, Django, WordPress, Bootstrap
Tools: Linux (Ubuntu & Arch), Git, IntelliJ, Sublime Text, VS Code, PyCharm, CLion, Eclipse, Postman, DBeaver, phpMyAdmin, Vim
Libraries: JSoup, JDA (Java Discord API), BeautifulSoup4, Matplotlib, Python requests
Other Software: VirtualBox, VMWare, Google Docs, Microsoft Word, LibreOffice Writer, Google Sheets, LibreOffice Calc, [draw.io (diagrams.net)](draw.io), Qalculate!, Photoshop, Photopea, Canva

CERTIFICATIONS

Java (Basic) Certificate from HackerRank | *No expiration date* Issued June 21ˢᵗ, 2020

- Credential ID: 9FD9E98366BE
- Certification URL: https://www.hackerrank.com/certificates/9fd9e98366be
- Please note that the HackerRank certificates are in my old name; I have a Canadian Name Change Certificate to prove my previous and current names

JavaScript (Basic) Certificate from HackerRank | *No expiration date* Issued June 21ˢᵗ, 2020

- Credential ID: 92BE5847425F
- Certification URL: https://www.hackerrank.com/certificates/92be5847425f

PROJECTS

Social Credit Bot | *JDA (Java Discord API)*   December 2024 – Present
- A Discord bot with a currency system ("social credit")
- Commands include: `/credit`, `/leaderboard`, `/profile`, `/cat`, `/rob`, `/daily`
- **Skills used/learned:** Java Discord API, building Discord bots, communicating with Discord's API, using multiple .csv files as a small database, using Jackson to parse JSON retrieved from HTTP requests

Driving Spotter | *Spring Boot, React Native*   January 2025
- Made for **uOttaHack 7 (2025)**
- A mobile app that allows users to report parking infractions to 3-1-1 (concept)
- During the hackathon, we managed to save the data to the database (MariaDB); We ran out of time to implement the final step of sending the data to 3-1-1
- Backend: Java Spring Boot; Frontend: React Native
- Responsibility: build the backend
- **Skills used/learned:** Building a REST API with Spring Boot and communicating with other APIs (like GroqAI's Image OCR API to grab license plate text)

Poker (without gambling) | *C++*   April 2024
- Project for Grade 12 ICS4U Intro. to Comp. Sci. course (**grade: 95 to 100%**)
- A 1-round console-based Texas hold 'em game **without** gambling (for some reason, poker was the only card game allowed for this assignment)
- **Skills used/learned:** Practically applied theoretical OOP & C++ concepts learned in class, like how to design C++ classes (in contrast to Java) and operator overloading

Serpent | *Java Swing*   May 2023 – June 2023
- Final project (summative) for Grade 11 ICS3U Intro. to Comp. Sci. course (**grade: 95 to 100%**)
- Another snake game, but this time multiplayer!
- **Skills used/learned:** Animating and drawing graphics using Java Swing

Zardle | *Java Swing*   February 2023 – April 2023
- Project for Grade 11 ICS3U Intro. to Comp. Sci. course (**grade: 95 to 100%**)
- A Wordle clone made with Java Swing
- Accepts keyboard input, and also includes a virtual/on-screen keyboard
- **Skills used/learned:** Reading large text files in Java, building clean GUIs using Java Swing that can handle keyboard input

VoteNote | *Django, Bootstrap, Material Design, Chart.js*   August 2022
- Made for **AbraCadabra Hacks 2** hosted by MLH, in which it **won 2nd place**
- A simple voting/polling web app built with Django
- The backend (which was my focus) was made with Django
- The frontend (which was my partner Pasindu's focus) was made with Bootstrap and Material Design
- Once the user votes either yes or no, the app displays a beautiful graph showing current poll results using Chart.js
- **Skills used/learned:** Learned how to track polls using users' IP addresses (each IP can vote only once), allowing for anonymous but accurate votes

Snek | *HTML5 Canvas, CSS, JavaScript*   January 2022 – June 2022
- Final project (summative) for Grade 10 ICS2O Intro. to Comp. Sci. course (**grade: 95 to 100%**)
- This is a snake game that supports gameplay both with/without walls
- Uses the HTML5 Canvas API for animation
- Includes several levels (each new level increases the game FPS, thus making it harder)
- **Skills used/learned:** Animating and drawing graphics using HTML/JavaScript and implementing a keyboard input buffer to reduce input lag

Virowebs | *HTML, CSS (Bootstrap), JavaScript*   November 2021
- Made for **hackHer 2021**
- Retrieves COVID-19 data for a given date and displays it in a table
- **Skills used/learned:** Learned how to use `await` `fetch()` to make HTTP requests with vanilla JavaScript in the browser