

Nizar Jandal Alrifai

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KEY SKILLS

- **Languages:** Java, Python, C, C++, Arduino
- **Web-Dev:** HTML5, CSS3, JavaScript, React.js, Bootstrap
- **Libraries/Tools:** Git, Github, AWS, .JSON, Android Studio, Gradle, LibGDX, Pygame, OpenCV, LaTeX
- **Hardware:** Arduino, Raspberry Pi, Circuit Design and VHDL
- **Software:** VSCode, CLion, Eclipse, Pycharm, Sublime Text, Atom, IntelliJ

PROJECTS

Mini-Games Android Mania

Windsor, ON

- Developed a series of entertaining multiplayer visual **Java** games using **LibGDX**
- Created an app to utilize phones as controllers, using **Android Studio**
- Established a connection using sockets between laptops and phones through a remote **Digital Ocean** server

Seize-Control

Hack The North

- Utilized **OpenCV**, **Firebase**, **Pytube**, **HTML** and **CSS** to create a Google Chrome extension to filter potential seizure-inducing YouTube videos in a team environment
- Used **Python** to process and analyze pixels per frame using self-designed mathematical algorithms
- Modeled data acquired to display to the user through **JavaScript**

Bored

MasseyHacks IV

- Collaborated with a team to create an app which find entertainment locations within an area using **Python**
- Acquired user location via interactive **Pygame**/**TKInter** UI
- Retrieved nearby location data in **JSON** form using **Google Maps** and **GeoCoder API**

Panium-RPG

Windsor, ON

- Co-created an open world, turn-based RPG in **Python**.
- Used **Pygame** to create the visuals and **UI**, and enhance **UX**.
- Created an interactive, multi-layered maps and rooms for the user to explore, using **Tiled**
- Used **File I/O** to allow for the users to save their progress and continue their adventures at any point

EXPERIENCE

Canada South Science City

Windsor, ON

Front-End Web Developer

July 2019 - September 2019

- Took initiative to rebuild the company's main website from scratch for the organization using **HTML**, **CSS**, **JavaScript**, and **Bootstrap** for a more informative and user-friendly website
- Helped establish and open 3 new exhibits to the public

CodeReach

Windsor, ON

Co-founder and Instructor

September 2017 - July 2018

- Co-founded an initiative to teach elementary school students **programming**.
- Collaborated with over 10 other team members to teach 70+ students **Python** and **Pygame** fundamentals
- Gained media attention and acquired 80%+ satisfaction rates from attendees.

Debate Club

Windsor, ON

Vice-President and member

September 2016 - July 2019

- Hosted meetings and managed over 70 members on a weekly basis
- Organized various local debate tournaments for high schools in the Windsor-Essex area

EDUCATION

University of Waterloo

Waterloo, ON

BASc in Computer Engineering

2019-2024(expected)

- Elected as one of two Engineering Society representatives out of 160 people
- Involved in: Midnight Sun Design team, Starter-Hacks Mentor, Soccer Intramural, FIRST Lego league volunteer