

Zakria Nabi

647-459-0025 | zakrianabi@live.com | [LinkedIn](#)

Projects

Spectrum Analyzer, University of Toronto

March 2023

- Configured hardware on the STM32 microcontroller to implement a spectrum analyzer using LED strips.
- Utilized a separate Bluetooth Low Energy device and Digital-to-Analog conversion on the microcontroller to drive voltages on the LEDs.
- Sent audio waveforms to an oscilloscope to verify functionality of BLE device and D2A conversion.

Mapper Program, University of Toronto

January 2021 - April 2021

- Collaborated with a team using Git to program and design a mapper program that would calculate and display a city map from a selected data file in C++.
- Utilized performance testing to optimize the data structures and algorithms resulting in an increase of performance by 40%.
- Designed mapper program UX/UI for a fast, efficient, and aesthetically pleasing experience for the user.

Experience

IT Intern, R.V. Anderson Associates Limited

May 2023 - September 2023

- Researched, deployed, and managed a Zabbix server monitoring network used to gain improved metrics and provide instant email alerts for company data servers and network devices.
- Developed and tested a Powershell deployment framework used to remotely manage Windows servers without the need to perform tasks manually.
- Performed tests to diagnose potential security threats on company devices and proposed solutions for how they can be fixed using the Powershell framework.
- Configured company laptops for new employees and replacement laptops for existing employees while ensuring that their transition is seamless.

Game Server Developer, Freelance

January 2016 - January 2020

- Utilized programming and debugging skills in Java to create a fun and engaging gameplay experience while also ensuring minimal bugs and glitches.
- Configured software for a Virtual Private Server, alongside performance testing to ensure a smooth gameplay experience for users.
- Collaborated with various professionals in the Minecraft server community, helping to manage and coordinate servers with 50+ users.

Music Producer, Freelance

January 2021 - Present

- Proficiency with different DAWs, including FL Studio and Ableton.
- Excellent listening skills and deep knowledge of recorded music in different genres.
- Experience with studio technology, including mixing boards, audio interfaces, monitors, and pre-amps.

Sound Director, SkuleNite

September 2022 - March 2023

- Arranged and efficiently organized rental list for band instruments and cast microphones, reducing costs by 15% from previous year.
- Setup and mixed microphones from band and cast strategically to get optimal sounding results from the theatre speakers.

Skills

Technical Skills: C, C++, Python, Java, Linux Systems, Git, HTML, SQL, FL Studio, Ableton

Additional: Data Structures, Algorithms, Project Management, Music Production, Audio Engineering

Education

Bachelor of Applied Science in Computer Engineering and Minor in Music, University of Toronto, 2025