

Daniel Nwaroh

4th Year Computer Science Student with practical experience in usability testing, software development and web design. Seeking a full time position that will allow me to enhance my technical acumen and complement theory learned in University.

EDUCATION

University of Calgary, Calgary AB— *B.Sc. in Computer Science, Concentration in Software Engineering*

September 2016 - PRESENT

PROFESSIONAL AND VOLUNTEER EXPERIENCE

O2 Planning + Design, Calgary AB - Software Developer Intern

May 2019 - December 2019

As a software developer intern, my primary job was to design a data analysis and visualization web tool that could be used by planners and architects within the company. This tool was also used for “tagging” and was integrated with machine learning in order to automate the “tagging” process. Also designed and maintained GIS tools used for public engagement and data collection.

Phidgets Inc, Calgary AB— *Usability Testing*

May 2018

- Performed system, unit and functional testing on applications on the website.
- Performed usability testing of their website and make recommendations.
- Drafted report on the overall usability of their product and website. Recommendations in the report were implemented.
- Wrote code python code to operate the Phidgets Inc. temperature sensor and output temperature data to the console.

UCFC (University of Calgary Football Club), Calgary AB- *VP of Information Technology & Social Media*

September 2017- January 2020

- Created and maintained a database of all members of the club.
- Manages email system, online bookings and our social media presence.
- Responsible for the increase in enrollment and online presence. Instagram followers have increased by about 30%. In the last month, the Facebook page has gained a 46% increase in likes and followers.
- Wrote a GUI application in Python that checks in members for club events and signs up new members

PROJECTS

Raspberry Pi: Arkanoid Game- Programmer

April 2018

A video game created as an assignment. It was coded completely using ARM Assembly on Raspberry Pi 3. The game itself is playable with a SNES controller. Completed with two other classmates. Received an A on this project.

GitHub Link: <https://github.com/danielnwaroh/Arkanoid>

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RELEVANT COURSEWORK

- Data Structures, Algorithms, and Their Analysis
- Distributed Systems
- Introduction to Software Engineering
- Database Management Systems
- Programming Paradigms
- Software Entrepreneurship
- Information Security & Privacy
- Computer Networks
- Web-Based Systems
- Human-Computer Interaction
- Information Visualization

TECHNICAL SUMMARY

PROGRAMMING LANGUAGES

Java · Python · C++ · C · HTML · C# · ARM Assembly · CSS · XML · Haskell · Pascal · Prolog · JavaScript · ARM Assembly · SQL · React · .NET · Node.js · Express · jQuery · Bootstrap · D3.js · Esri Leaflet

DESIGN & IDE TOOLS

UML · Eclipse · NetBeans · Android Studio · JUnit Testing Framework · Visual Studio · Figma · Adobe XD · Illustrator

SYSTEMS

Windows · Linux/Unix · Mac OS X · Raspberry Pi

OTHER SKILLS

Machine Learning (Natural Language Processing) · GIS · UX Design

LANGUAGES

English, Igbo, Dutch

Java Game: Astro Jump — Programmer

January 2017 - April 2017

A semester-long project which was a live-action game coded in Java, which uses GUI, and multiple other graphical implementations. Done as a class project in the first year of the program. Completed with other members of my group. Received an A+ on this project.

GitHub Link: <https://github.com/danielnwaroh/AstroJump>

Personal Website — Programmer

March 2019 - Present

Currently designing a personal website to tell others about myself. The website will include resume, skills, projects and other facts about myself. The end goal is for it to replace my resume.

Link to Website: <https://danielnwaroh.github.io/>

Hackathon Project: Lynck — Programmer

February 16, 2019

As a Hackathon project, my team and I created a website that would help parents communicate with teachers easier and track their child in school. This includes things like, viewing grades, looking at current agenda, viewing attendance, and also providing authorization for things like field trip forms all via our website. In designing this, we used HTML, CSS, and JavaScript for the front end, and MongoDB for the backend and administration. Pictures are included in the link.

GitHub Link: <https://github.com/danielnwaroh/LYNK>

Semester Project: Shuffl— Programmer, Primarily Front End/UI Developer

January-April, 2019

As a semester project, my group and I created a website that allows users to talk to each other and listen to music at the same time. Essentially users would create chat rooms where the host can control the music being played in that room, while everyone else can communicate with each other within the chat room. The music streaming was handled using the YouTube API. The front-end portion, we mostly used the JavaScript library React, while for backend, database and server communication we used MongoDB and Express.

GitHub Link: <https://github.com/issackj1/Group5>

Semester Project: SpotGrab(Android Application) - Mobile Developer

September-December, 2018

As a semester project in an entrepreneurship class, my group and I created an Android Application that connects employers to potential employees, to help the employer fill in a shift for that one specific day. In development, we used Android Studio and Google Firebase for our database. During the planning phase, Figma was used to sketch out different UX designs.

GitHub Link: <https://github.com/danielnwaroh/SpotGrab>

Project: Collaborative Learning(Web Based Application) - React Developer

January-April, 2020

Developed a web application that allows users to share educational content with others, and create custom courses intended to be used by themselves or others. Forms of content include images, pdf's, videos, and other documents.

GitHub Link: https://github.com/ZacharyKahn16/collaborative_teaching