

KOOSHA GHOLIPOUR

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GitHub: <https://github.com/KooshaG>

SUMMARY OF SKILLS AND QUALIFICATIONS

Applications | Microsoft Office • Visual Studio Code • Eclipse • Docker • Kubernetes • Git • Grafana • Gitlab
Programming | Java • Python • Html • CSS • JavaScript • TypeScript • React • PHP • PowerShell • C++
Languages | French: Spoken & Written | English: Spoken & Written | Farci: Spoken

EDUCATION

Bachelor of Engineering – Software Engineering Co-op **2020-2024 (Expected)**
Concordia University, Montreal, QC

- Member of the Institute for Co-operative Education

Relevant Courses: Object Oriented Programming, Math for Computer Science, Data Structures and Algorithms

Awards:

- Dean's List (2021)
- Bourses d'excellence en sciences de l'informatique, en génie informatique et de la construction des ordinateurs et en génie électrique, électronique et des communications (2021)

WORK EXPERIENCE

Junior Developer **May 2023 – Present**
Vffice, Saint-Hubert, QC

- Vffice is a consulting firm which assists companies with the Microsoft Business suite.
- Worked on a PDF viewer for Power BI, using Azure Functions to grab PDFs hosted online and pass them into the reports, allowing for custom PDFs to be shown inside.
- Worked on multiple projects as a reviewer, double checking formatting and enforcing code quality.
- Given emergency fix tasks with a constant turnaround time of less than one day.
- Obtained PL-400 certification during internship.
- Summer internship turned into permanent part time employment because of performance.

Core Competencies: Microsoft Power Apps, Azure, Business Central, Dataverse, AL Language

Cybersecurity Developer **May 2022 – September 2022**
McGill University, Montreal, QC

- Worked with Canadian Shared Security Operations Center (CanSSOC) which focuses on sharing threat intelligence with other institutions in Canada.
- Added authentication to certain routes in Apache server that held list of threats for better access control.
- Created a proof of concept that demonstrated the parallelization of a Python worker using Kubernetes and ZeroMQ. The PoC was able to scale up and down and evenly distribute the work between workers.
- Created another proof of concept that demonstrated how to create a Flask server that scaled up based on load using Kubernetes. It also showed how to deploy the project into Azure Kubernetes Service.

Core Competencies: Python, Docker, Docker Compose, Kubernetes, Azure, Apache, ZeroMQ, Flask, Gitlab, YAML

Software Tester Intern **September 2021 – December 2021**
Genetec, Montreal, QC

- Genetec is a physical security company focused on creating a unified security system for enterprise customers.

- Testing management using Azure test suite in an agile environment
- Bug analysis and exploratory testing to create test cases that replicate real world scenarios.
- Creation of internal tools to increase testing efficiency by reducing installation of testing tools.
- Personally stress tested software to verify the minimum requirements with the release of Windows 11.

Core Competencies: [Creativity](#), [Bug Reporting](#), [Troubleshooting](#), [Testing Reports](#), [Grafana](#), [Azure](#)

Instructor

April 2018 – September 2021

O'botz, Montreal, QC

- O'Botz is an after-school robotics program in which children learn about robotics.
- Arduino Programming.
- Teaching children the basics of electronics and programming.
- Given resources to make my own projects and present them to the children to inspire them.
- Gave sample classes to parents who were interested in the program. This resulted in 4 students joining the program.
- Give students challenges on certain topics in programming to assess their level of skill and their understanding of the subject material.

Core Competencies: [Lesson Planning](#), [deconstructing complex topics into more understandable topics](#), [Programming](#), [Problem Solving](#)

PROJECTS

Cross Cast, ConUHacks VII Winner

2023

In Person Hackathon

- Won 1st place in the Mirego challenge.
- Created an application with the beta Next 13 framework with Typescript that compiled corporate communications from different platforms.
- Implemented gathering posts from GitHub, Twitter and Slack using their respective APIs.
- Hosted on Vercel with automatic GitHub deployments. [CrossCast.live](#)
- 24-hour time limit on the creation of the application.

Core Competencies: [Programming](#), [Typescript](#), [APIs](#), [UI Frameworks](#), [React](#), [Server Side Rendering](#), [Page Hydration](#).

Room Master

2023

Montreal, QC

- Created an automated script that would replicate the steps required to reserve a study room in the Concordia Library without any human intervention based on what days of the week and time the user wanted to reserve.
- Used an HTML parser and could recognize when the reservation system asked for re-authentication.
- Next Js Frontend with authentication for users to easily change their reservation schedule.
- Able to determine which days in the future the bot can reserve at any time with a database that lists all the days that the bot has already reserved to avoid unnecessary requests.
- Hosted using Azure Functions with a continuous deployment script connected to the GitHub repo.

Core Competencies: [Python](#), [HTTP request analysis](#), [Databases](#), [Serverless Deployment](#), [Next Js](#), [Authentication](#)

Handle

2023

Concordia University, Montreal, QC

- Created "Wordle"-like game that uses ASL hand signs to type out words.
- Used tensorflowJS with hand recognition model to identify hand positions.
- Used camera on devices for user hand input, overlaying tracking positions found by hand recognition model.
- Created scripts that would determine what hand sign was being shown using the rotation of finger joints and the distance between them.

Core Competencies: [Programming](#), [Python](#), [UDP](#), [Computer Vision](#), [Presentation Skills](#), [Teamwork](#)