

# Steeve Johan Otoka

613-869-4049 | [jotok15@my.yorku.ca](mailto:jotok15@my.yorku.ca) | [linkedin.com/in/johanotoka](https://www.linkedin.com/in/johanotoka) | [github.com/johanotoka](https://github.com/johanotoka)

## EDUCATION

### York University

Jan. 2020 – May 2024

*Honours Bachelor of Computer Engineering*

*Toronto, ON*

**Courses:** Algorithms and Data Structures, Software Design, Software Requirements, 3D Computer Graphics, Computer Vision, Embedded Systems

## EXPERIENCE

### Research Assistant

Oct. 2022 – Apr. 2023

*Lassonde School of Engineering*

*Toronto, ON*

- Assist in the research project on materials discovery with high entropy alloys using machine learning
- Responsible for developing a machine learning algorithm to predict the main structure of an alloy given the its metallic constituents

### IT Executive

Oct. 2022 – Feb. 2023

*ElleHacks 2022*

*Toronto, ON*

- Use **Figma** to design web site mock-ups for ElleHacks 2023
- Develop the ElleHacks 2023 website using Figma plug-ins alongside with **HTML, CSS and JavaScript**
- Work in a team using the **Agile** methodology for constant collaboration and continuous improvement at every stage of the project

### Research Assistant

May 2022 – Aug. 2022

*Lassonde School of Engineering*

*Toronto, ON*

- Monitored and tracked the behavior of important aspects of laser-powder-bed fusion 3D printing to understand the origin of the defects appearing in the printing
- Built a **Python** application making use of **OpenCV** to process images and videos of the 3D printing process
- Pre-processed data from a high-speed camera and photo-diodes in the appropriate format for an **Artificial Neural Network** model and use in **K-means clustering**

## PROJECTS

### World Bank Data Graph Maker | *Java, Maven, SpotBugs, JUnit, Randoop*

Sept. 2022 - Dec. 2022

- Implemented different software design patterns to build a fully functioning application fetching data from the World Bank API and displaying graphs generated from those data
- Worked in team and used **Jira** for issue and project tracking
- Used tools and libraries such as **SpotBugs**, **Randoop**, and **JaCoCo** to achieve non-functional requirements

### clARity (Hack the Valley Best App Winner) | *Android Studio, Java, Python*

Oct. 2022

- Built an app that helps people struggling with anxiety, depression, and other mental health conditions by picturing their thoughts and dreams for journaling purposes
- Used the **Chaquopy SDK** to establish a link between the Python and Java code bases and make API calls
- Used the **Wombo API** to make **AI**-generated art work to create the user's journal entry

### CampUsMeet (TuffyHacks winning project) | *React, Node.js, Express, MongoDB*

Feb. 2022

- Built a web scheduling application to facilitate university students meeting during their free time on campus
- Designed the server side of the web application using **Node.js**, **Express**, and **MongoDB**

### Covid-19-visualization | *Jupyter Notebook, NumPy, pandas, Matplotlib, Seaborn*

June 2021

- Analyzed Covid-19 data obtained from a public CSV file being updated twice a day
- Plotted data on different graphs to present the evolution of the Covid-19 virus in Canada and worldwide

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, HTML/CSS, C, C#, SQL (MySQL), MATLAB, Bash, Verilog

**Frameworks/Libraries:** React, Node.js, Flask, JUnit, OpenCV, pandas, NumPy

**Developer Tools:** Git, Postman, Unity, Figma, Jira

## OTHER

**Languages:** French (Native), English (Fluent)