

# Nicholas McGee

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<https://www.linkedin.com/in/nicholas-r-mcgee>

<https://github.com/Nick-McGee>

## EDUCATION

### B.Sc. Computer Science

Sept. 2017 – Aug. 2021

*University of British Columbia, Okanagan*

*Kelowna, British Columbia*

- Awarded Dean's List designation in fourth year for exceptional academic achievement.

## WORK EXPERIENCE

### Mosaic

Feb. 2022 – Mar. 2022

*Software Developer I*

*Remote, New York City*

- Designed and developed a distributed hyperparameter tuner and machine learning trainer with Uvicorn and Django-Q that reduced model training time by 20%.
- Implemented a comprehensive Postman testing strategy, including GitHub backups, which was presented to 20+ engineers.
- Developed an API to call trained models and predict the requested values based on the provided target, with comprehensive and explicit error messages.

## PROJECTS

### Audio Streaming Discord Bot

May 2022

<https://github.com/Nick-McGee/discordBot>

- Developed and deployed a Discord Bot in Python on Google Cloud, where users can queue audio via a search query, or YouTube URL, and stream audio from YouTube to a Discord voice channel.
- Implemented an event handler to update the message-based user interface to create a responsive and reliable user experience.

### Microsoft and Mojang Capstone Project

Sept. 2020 – Apr. 2021

<https://github.com/yyht6300a/499Project-Minecraft-C>

- Delivered a full-stack machine learning teaching platform in Minecraft Education in 8 months that features an interactive Python coding environment with lesson instructions.
- Coordinated with principal engineers at Microsoft to define the project's scope and deliver reports.
- Featured at an internal event with ~100 engineers and executives with overwhelming approval.

### Fantasy Sports Predictions with Decision Trees

Apr. 2021

<https://drive.google.com/file/d/1AjeiQfBuQneDVBBEtxaDxjLT05Wh-eVa/view?usp=sharing>

- Used several thousand data points with over 1 million predictors to create a boosted decision trees model with over 95% accuracy to predict NBA fantasy scores.
- Wrote a publishable research paper with generated graphs and tree images for data visualization.

## SKILLS

### Languages

- Python, Java [Up to 5 years of experience]
- HTML, CSS, JavaScript, SQL [Up to 3 years of experience]
- C/C++, PHP [Up to 6 months of experience]

**Technologies:** Redis, PyTest, MySQL, Flask, Django, NumPy, Git, SSH, Google Cloud, Linux.