

# INNOCENT NIYIBIZI

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## EDUCATION

**Missouri University of Science and Technology (Missouri S&T)**

B.S. Computer Science *GPA: 3.4*

Rolla, MO

Aug 2016 - Present

## EXPERIENCE

**Google Inc.**

*Engineering Practicum Intern*

New York, NY

May 2018 | Aug 2018

- Used C++ and protocol buffers to develop a command line tool that runs queries on an RPC server and deserializes the response providing logs that save hours of debugging for Geo Data.
- Communicated with team members as well as other engineers to design and modify the original functionality of the tool to improve query times by 20-30 minutes.
- Drove the development process for the tool from its infancy to maturity by writing design specifications, working on the actual implementation, and launching the tool into production.
- Worked closely with another intern to implement key pieces of the prototype for a structured logging system that will be used across many Geo Platform teams.

**Missouri S&T - Multirotor Robot Design Team**

*CEO, Head of Autonomous Flight*

Rolla, MO

Sep 2016 | Present

- Managed a team of four to research and develop robots that perform autonomous, aerial maneuvers.
- Used P.I.D controller to implement autonomous take-off, hover, and landing.
- Implemented a 360° spinning LiDAR sensor, with a Python API, to aid in onboard collision avoidance algorithms.

**Special School District**

*IT Help Desk Intern*

Town And Country, MO

Jun 2015 | Aug 2017

- Provided technical support to faculty and staff of SSD.
- Lead a team of two other interns during my second year that was tasked with streamlining the process of reimaging and updating more than 700 student computers and mobile devices.
- Used Windows PowerShell and Batch files to create scripts that would help automate the reimage and update process.
- Worked with the software development team to develop Python and SQL scripts that would help maintain their asset tracking database.

## SKILLS

Programming Languages: C++, Python, Android

Technical Skills: Linux, macOS, Windows, Protocol Buffers, Remote Procedure Calls

## PROJECTS

**Swoly** *Java, SQLite*

An Android app that helps your brain do the heavy lifting.

<https://github.com/Durian-Inc/Swoly>

**PongChat** *Javascript, Go, HTML, CSS*

A platform where you and n number of friends can chat and play Pong together at the same time!

<https://github.com/Durian-Inc/PongChat>

**Debate Mingle** *Python, Flask, Jinja2, Postgresql*

A platform where you're able to chat with people that have similar or opposing views on topics, but with a twist.

<https://github.com/Durian-Inc/DebateMingle>

**VeterIn** *Python, Flask, Jinja, Javascript*

Business focused network for Military Veterans to find jobs or employees

<https://github.com/Durian-Inc/VeterIn>

**Honey, I'm Home** *Python, Twilio, Raspberry Pi*

IOT project for Google NYC's inaugural tech intern hackathon used to improve the lives of NYC residents by providing a personal security system with multiple stages of alerts.

<https://github.com/DurianV2/NYC-IOT>

## HONORS AND ACTIVITIES

**Dean's List**

Spring 2017 - Spring 2018