

INNOCENT NIYIBIZI

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EDUCATION

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

B.S. Computer Science *GPA: 3.5*

Rolla, MO

Aug 2016 - Present

EXPERIENCE

Google Inc.

Software (Site Reliability) Engineering Intern

Seattle, WA

May 2019 | Aug 2019

- Created an automatic Python code snippet validation tool directly affecting over 10 thousand targets by using Go and Python libraries paired with protocol buffers.
- Worked with the Releases and Rollouts team to integrate the tool into their production rollout automation engine to ensure that Python snippets follow best practices before deployment.
- Iterated through the entire development process from designing, developing, testing, and deploying to production.
- Improved the average validation time by 90% using parallel testing structure and caching results.

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 | Aug 2019

- 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.

SKILLS

Programming Languages: C++, Python, Go

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

PROJECTS

Swoly *Java, SQLite*

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

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

PongChat *Javascript, Go, HTML, CSS*

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

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

Debate Mingle *Python, Flask, Jinja2, Postgresql*

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

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

VeterIn *Python, Flask, Jinja, Javascript*

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

Business focused network for Military Veterans to find jobs or employees

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

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

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.

HONORS AND ACTIVITIES

Dean's List

Spring 2017 - Spring 2019