Innocent Niyibizi

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Education

Missouri University of Science and Technology (Missouri S&T) — Rolla, MO
B.S. Computer Science *GPA: 3.5* — Aug 2016 - Present

Experience

Google Inc. — Seattle, WA
Software (Site Reliability) Engineering Intern — May 2019 | Aug 2019

- Developed 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. — New York, NY
Engineering Practicum Intern — 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 — Rolla, MO
CEO, Head of Autonomous Flight — 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 inagural 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