

# Casey Slaughter

+18057292585

Durham, NC

[caseyslaughter@gmail.com](mailto:caseyslaughter@gmail.com)

[Github](#)

## EDUCATION

---

### Duke University

Durham, NC

*Master of Environmental Management – Ecosystem Science and Conservation*

August 2021 – present

- Master's thesis focusing on cloud-based deforestation monitoring in Central Africa
- Coursework in geospatial analysis with Python, resource economics, and machine learning

### New York University

New York, NY

*Bachelor of Science in Computer Science*

September 2012 - December 2015

- Coursework in computer architecture, operating systems, algorithms, and data structures

## WORK EXPERIENCE

---

### Virunga National Park

North Kivu, Democratic Republic of the Congo

*Technology Lead*

January 2020 – August 2022

- Designed real-time alert system for communities to report nearby security forces about possible rebel incursions; implemented using LoRaWAN, Python, AWS (EC2, Lambda, S3), Django, and React.
- Developed Google Earth Engine project to monitor deforestation and facilitate effective ranger patrols; implemented with JavaScript and supervised classification of Sentinel-2 imagery.
- Designed and conducted drone pilot training program with dozens of park rangers in French, in order to improve wildlife counting efforts and thwart potential ambushes while rangers are on patrol.

### Caracal

Kigali, Rwanda

*Founder/CTO*

January 2019 – December 2019

- Conceptualized and built geospatial data automation tool that connects wildlife tracking collars and cloud documents with GIS platforms, enabling protected areas to better understand real-time and historical data.
- Designed and engineered a scalable platform using Python, AWS (Kinesis, Lambda, S3), Django, and React.
- Received a \$7,000 Early Career grant from the National Geographic Society to cover the cost of programmers and cloud services by successfully conveying the potential impact of project on anti-poaching outcomes.
- Managed a team of two remote frontend programmers in the implementation of new features.

### quip.link

Kigali, Rwanda

*Co-founder/CTO*

January 2018 – March 2019

- Co-founded and designed a technology product that links over 120 informal hardware shops with institutional buyers to reduce inefficiencies in the market and improve intra-city delivery networks.
- Developed business and marketing strategy through dozens of interviews with local traders.
- Engineered secure, intuitive platform using Django, MySQL, AWS (Cognito, EC2, S3), React, and Python.
- Managed a small team of remote web developers using Agile-based development methodologies.

## SKILLS & INTERESTS

---

- **Skills:**
  - Advanced in Python and Django web framework
  - Advanced in JavaScript and React library
  - Advanced in Amazon Web Services
  - Proficient in TensorFlow
  - Proficient in French
- **Interests:** Mnemonics, electronic music production, bonsai