# Giorgi Lomia

Phone: (859) 979-4002 | Address: CPO 878, Berea, KY | Email: lomiageorge@gmail.com | Linkedin | GitHub | Kaggle

## EDUCATION

Berea College, Berea, KY **August 2017 - May 2021**
**Double Major: B.A. Computer Science, B.A. Mathematics. GPA: 3.85/4**
**Relevant Courses:** Data Analytics, Machine Learning, Deep Learning, Software Engineering, Data Structures, Programming Languages, Calculus 2, Fundamentals of Math, Linear Algebra, Computational Neuroscience.

## SKILLS

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| Programming Languages: | Python, R, C++, Java, Visual Basic, HTML, SQL. |
| Artificial Intelligence: | TensorFlow, Keras, OpenCV, Sckit, Pytorch, Sklearn, Pandas. |
| Operating Systems: | Linux, Google Cloud, Windows, MacOS. |
| Languages: | Russian, Georgian, Polish. |

## EXPERIENCE

**Deep Learning Software Engineer Intern, System Corp:** **June 2019- August 2019**
- Wrote an image segmentation and classification, machine learning algorithm, using Python and C++ to diagnose 50 skin diseases.
- Launched a full diagnosis pipeline from image intake to conclusion on 22 hospital servers in Tbilisi.
- Reduced diagnosis time from 2 hours to 2 seconds per patient and improved diagnosis accuracy by 17%.
- Collaborated with and learned from a dedicated team of 12 data scientists and software developers, to solve diverse problems.
- Performed 356 hours of applied research in machine learning, contributing to the medical research community in Tbilisi.

**Deep Learning Software Engineer Intern, Kashmir World Foundation:** **April 2019- June 2019**
- Developed an artificial intelligence system, in C++ and Python, to classify and detect animals in camera trap image feed, to help save snow leopards and other 12 endangered species.
- Wrote a research paper on 412 hours of applied, deep learning, research conducted.
- Cut down animal image classification process conducted by preservation workers from 2 months to 5 minutes, by implementing a full image processing pipeline.
- Overcame challenges of occlusion, camouflage and localization for a data set containing +100,000 images.

**Android Development Tech Lead, Codepath** **December 2019- Now**
- Led, coordinated and organized 15 Android developers, creating variety of applications.
- Developed and designed 10+ Android applications, as well as helped students design over 30 applications.
- Taught Facebook-designed for credit 12-week Android development course on campus with 25+ students the fundamentals of Android development through the hands-on experience.

**Teacher Assistant for Software Design and Data Structures, Berea College:** **August 2018-Now**
- Analyzed and graded +30,000 lines of code, to provide feedback and suggest improvements to students.
- Initiated +50 labs and projects for students, to encourage solving Python and C++ problems.
- Facilitated 30 students to explore programming and data structures and increased average grade by 34%.

## PROJECTS https://github.com/GioLomia

**Deep Learner:** (Python, Tensorflow, Keras):
- Designed an interactive, easy to use GUI, allowing users to import, visualize and inspect data, in 24 hours.
- Devised a system enabling users to construct, train and run neural networks that are 15+ layers deep without writing any code.

**Speech Toxicity Classifier** (Python, Tensorflow, Keras, Sklearn):
- Engineered a recurrent LSTM neural network with applications of natural language processing.
- Improved human interaction on Berea College community forum, by classifying +220,000 toxic comments.

**QR & Barcode Detector** (Python, OpenCV):
- Implemented a Computer Vision system using OpenCV library, designed to detect Barcodes and QR codes within 0.5 seconds.
- Streamlined barcode and QR code lookup and identification of 154,212,372 items and websites.

**InstaParse** (Java, Android Studio, XML, Heroku):
- User can view the last 20 posts submitted to InstaParse.
- User can pull to refresh the last 20 posts submitted to InstaParse.
- Posts are saved onto an external data base.

## ACOMPLISHMENTS

**Dean's list –** awarded for academic excellence, maintained all throughout 3 year college career.
**Ballard-McConnell-Willis –** awarded $26,000 worth scholarship for excellence in Mathematics, out of 1600 students.
**4 year full ride scholarship –** granted a full ride academic scholarship by Berea College.