

# Gacoka Mbui

## Computer Science Major

I am an aspiring developer with a passion for designing secure human-centric software. I have a deep understanding of Algorithms and Data structures as well as in writing computationally efficient algorithms.

✉ markgacoka@minerva.kgi.edu

📍 Nairobi

🐦 twitter.com/markgacoka

📞 +254716429794

🌐 markgacoka.com

👤 github.com/markgacoka

## EDUCATION

### Bachelors in Computer Science Minerva Schools at KGI

09/2019 - Present

San Francisco, California

Minor and Concentration

- Concentration in Data Science and AI
- Minor in Business

## EXPERIENCE

### Program Participant Twitter

05/2020 - 05/2020

San Francisco, California

A social networking service on which users post and interact with tweet messages.

Achievements/Tasks

- One of 30 attendees selected to attend a five-day interactive program for first-year computer science majors focused on professional and technical development.
- During the program, I created and pitched a feature for Twitter's platform.

Contact: Lejorne Leys, Diversity Program Manager - @StoicLeys

### Research Intern

#### Citizens' Climate Lobby, SF Chapter

11/2019 - 03/2020

San Francisco, California

An international grassroots environmental group that trains volunteers to build relationships with their elected representatives in order to influence climate policy.

Achievements/Tasks

- Accountability lead of a group of 5 in a Social Sciences civic partner project directed to influence community leaders and local organizations concerned with climate change.
- Recently helped passed the HR-763 bill at City Hall through lobbying, grass-tops outreach, and letters to newspaper editors.

Contact: Whitney Larsen, SF Chapter Co-Leader - whitney.larsen2@gmail.com

### Cornerstone Coding Peer Tutor Minerva Project

09/2019 - 12/2019

San Francisco, California

Work-study project for the for-profit educational organization that funds Minerva Schools at KGI

Achievements/Tasks

- Involved supervising coding structured study sessions consisting of 2 groups each 8 students coded in Python, holding drop-in office hours, and grading weekly coding lab exercises to track student progress.

Contact: Alex Terrana (Supervisor) - aterrana@minerva.kgi.edu

## SKILLS

CyberSecurity

HTML, CSS, Javascript

Bash

NodeJS

Dart

Interpersonal communication

Teamwork

Organization

Python

## PERSONAL PROJECTS

### Celebrity Trivia (03/2020 - Present)

- An interactive multiplayer online quiz to test intended to measure who among your friends is the greatest stan for your favorite celebrity. Written in Dart programming Language in Flutter.

### Trash Classifier (01/2020 - 01/2020)

- An AI-based trash classification algorithm intended to educate and improve personal waste management. Presented in TreeHacks 2020. Written in NodeJS and AI designed using TensorFlowJS.

### Safe Path (02/2020 - 03/2020)

- An optimized shortest path algorithm that navigates to the quickest safe route for people to navigate on when on new territory. Written in Python.

### Facial Recognition (10/2019 - 01/2020)

- A Facial Recognition software for classifying people's faces in both image and video format. Written in Python using OpenCV

## CERTIFICATES

### Datacamp (08/2019 - 08/2020)

A total of 11 courses in Python, R and Data Science.

### Algorithms and Data Structures by Stanford University - Coursera (09/2020 - Present)

Courses: Divide and Conquer, Sorting and Searching, Shortest path, NP-Complete, Greedy Algorithms and Data Structures

## LANGUAGES

English

Full Professional Proficiency

Swahili

Native or Bilingual Proficiency

## INTERESTS

Electrical Prototyping

Bug bounty hunting

Chess

Climate policy and sustainability