

JOSHUA MARK

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EDUCATION

Minerva University

San Francisco, CA

Candidate for Bachelor of Science, Computer Science and Artificial Intelligence, Molecules and Atoms

2021- 2025

Minerva is a highly selective (~2% acceptance) university recently recognized as [most innovative university](#) in the world.

Key Courses: Introduction to Computer Science and Algorithms, Calculus, Linear Algebra

SKILLS AND INTERESTS

Technical Skills/Proficiencies: Python(10/10) and packages including Numpy(8/10), Scikit-learn(9/10), Pandas(8/10), Tensorflow (7/10), Plotly(10/0), Spacy (8/10), Flask (9/10) and Django (7/10). R(4/10), C++(7/10), Javascript(8/10), Dart(7/10). AWS(6/10), Google Cloud (9/10), Google Suite (9/10), Heroku (10/10), Git (9/10), Linux (7/10).

Clubs and Affiliations: Member -*ColorStack*, Cybersecurity student -*CodePath*, Technical Lead -*Google Developer Student Club*, Finalist - *Code2040*

Certifications/Courses: *Data-Driven Astronomy(Python/SQL)*, University of Sydney; *Machine Learning with Google Colab*, Udemy; *Python for Data Science*, Sololearn; *Introduction to Mathematical Thinking*, Stanford University

Personal Interests: All things algebra, coding, anime, sci-fi entertainment, cartography.

EXPERIENCE

Minerva University - Outreach Intern (Data Analysis)

San Francisco, CA - Sep 2021– Apr 2022

- Performed exploratory data analysis on student, applicant and counsellor data resulting in 70% more streamlined responses to individual issues.
- Used Python to automate tasks of contacting individuals, scheduling sessions, dataset cleaning and comparison, leading to approximately 10 times faster completion.

Nigerian Christian Institute - Teaching Assistant, Department of Mathematics

Uyo, Nigeria - Sep 2019– Dec 2019

- Responsible for teaching mathematics and computer science to 120+ high-school students
 - Introduced novel teaching methods –using animations and which improved students' performance by >60%
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PROJECTS

[Personal Website](#) – comprehensive info on more projects and biography.

[Access](#) – enables internet connectivity through text, catering for 25% of the world's internet access when completed. Made with React-Native, Python, Twilio and Google-Assistant. Worked on the backend. Received the **Best Beginner's Hack Award**, CalHacks 8.0, 2021.

[VidSearch](#) – Search engine for spoken audio in youtube videos, reducing search time by >90%. Built using **HTML, CSS, Javascript, Python/Flask**.

[Orbital](#) – Interactive 3D visualisations of electron orbitals in a hydrogen atom, helping students have 40-80% better understanding of electronic orbitals over 2D visuals. Built with **HTML, CSS, Python/Flask, Plotly**.

[eBay 2022 Machine Learning Competition](#) – Achieved top 7 on the leaderboard using transformer model to predict product label classes; achieved >90% f-1 score on training and >70% f-score on validation data.

LEADERSHIP EXPERIENCE

Young Nigerian Scientists Presidential Award, 2019 - awarded to 3 highest achieving Nigerian students in science and tech.

National Award, International Youth Math Challenge, 2020 - awarded to the highest scorer in Nigeria.

Gold Award, International Youth Math Challenge, 2020 & 2021 - awarded to the top <3% scorers internationally.

Finalist, Code2040, 2021 - Became part of the largest racial equity community in tech with other talented students.

Technical Lead, Google Developer Student Club, Minerva University, 2022 - organise and facilitate technical events on machine learning, cloud computing, Google Cloud Platform and other technologies.