JOSHUA MARK

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EDUCATION

Minerva University   **San Francisco, CA -** *2021- 2025*

Candidate for Bachelor of Science, Computer Science and Artificial Intelligence, Mathematics

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

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

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SKILLS AND INTERESTS

Technical Skills/Proficiencies: Python (10/10) and packages including Numpy (9/10), Scikit-learn (9/10), Pandas (8/10), Tensorflow (9/10), Plotly (10/0), Spacy (8/10), Flask (9/10) and Django (9/10). R(4/10), C++ (7/10), Javascript (8/10), SQL (7/10).PostgreSQL (8/10), 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 which improved students' performance by >60%

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.**

GDSC ExploreML – Led a team of 7 to facilitate and teach a machine learning course by Google called ExploreML to a Google Developer Student Club with over 100 members. Tools used: **Python, Tensorflow**.

LEADERSHIP EXPERIENCE

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.

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.