

# JOSHUA MARK

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## EDUCATION

### Minerva University

San Francisco, CA - Sep 2021–May 2025

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

Minerva is a highly selective (~2% acceptance) university as the [most innovative university](#) in the world for 3 years in a row.

Key Courses: Software Engineering, Algorithms and Data Structures, Calculus, Linear Algebra, Real Analysis

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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, *Technical Lead* -Google Developer Student Club, *Fellow* - 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.

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## EXPERIENCE

### DoorDash - Software Engineer Intern

San Francisco, CA - May 2024 –Sep 2024

- Used user-profile segmentation services to gain insights into consumer preferences to improve user experience
- Data- and test- driven development by analysing existing data to inform software design choices.
- Collaborated with data engineers, machine learning engineers and frontend software engineers to create and deploy new services and features within new verticals engineering at DoorDash.

### Outschool - Software Engineer Intern

San Francisco, CA - May 2023 –Aug 2023

- Implemented UI/UX refinements to optimise search experience, improved search performance and result relevance.
- Performed A/B tests and conducted statistical analyses to evaluate the effectiveness and usefulness of various search features, enabling data-driven decision-making.
- Added new attributes and filters to augment data structuralism and simplify algorithms.

### Minerva University - Teaching Assistant

San Francisco, CA - Sep 2023– Sep 2024

- Assist in teaching and tutoring students on subjects like calculus, linear algebra and optimization.
  - Perform administrative tasks in the college of computational sciences, and research improvements to academic material.
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## PROJECTS

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

[Pylogic](#) – a mathematical theorem proof assistant library in Python. Main focus on real analysis, number theory and logic.

[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. Won the **Best Beginner's Hack Award, CalHacks 8.0, 2021.**

[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.**

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## LEADERSHIP EXPERIENCE

[Google Developer Student Club Lead, Minerva University, 2023](#) - 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.

[Fellow, Code2040, 2023](#) - Became part of the largest racial equity community in tech with other talented students.