MATEO **SANCHEZ LOPEZ**

Software Engineering Student | Computing and Mathematics Lab Demonstrator

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Summary

Driven and adaptable software engineering student from Bolivia, with a strong foundation in developing software solutions, collaborating in cross-functional teams, and active problem-solving. Passionate about learning, with a demonstrated ability to implement effective solutions under pressure, prioritising end-user experience. Eager to grow and make an impact.

Education

Manchester Metropolitan University - BSc (Hons) Software Engineering – *Manchester, UK*	Sept 2023 – Jul 2026
Saint Andrew's School – International Baccalaureate – *La Paz, Bolivia*	Feb 2021 – Nov 2021
Richmond Park Academy – GCSEs – *London, UK*	Sept 2014 – Jul 2019

Technical Skills

Programming Languages:

Typescript, JavaScript, Java, Python, HTML, CSS

Technologies:

Node.js, React, Next.js, Git, Express.js, PostgreSQL, Tailwind CSS, NoSQL, React Query, React Native, Expo, NumPy, Pandas, PyTorch, Scikit- Learn and more

Skills

- Strong communication skills enhanced by international experience working and studying in diverse environments.
- Ability to communicate effectively, demonstrated by experience as a lab demonstrator, assisting university students in understanding challenging programming concepts and fostering effective learning.
- Worked efficiently in cross-functional teams, prioritising inclusive collaboration.
- Analytical thinking and effective decision making to address challenges in dynamic environments.
- Skillful leadership demonstrated by leading the development of multiple university team projects.
- Adaptation capabilities, developed by my diverse upbringing in Bolivia, the UAE, and the UK.

Experience

Manchester Metropolitan University   Manchester, UK

Department of Computing & Mathematics Assistant Lab Demonstrator   Oct 2024 - Present

- Effectively communicated complex software engineering concepts to ensure student comprehension.
- Provided one-on-one assistance to students, tailoring explanations to varying levels of technical proficiency.
- Fostered a supportive learning environment, encouraging collaboration and peer-to-peer learning among students.

Bright Network   Manchester, UK

IEUK Internship Experience: Technology   Jun 2024

- Took part in an interactive internship experience with BT Group, CrowdStrike, Lloyds Banking Group and other top employers in the technology sector.

BancoSol   La Paz, Bolivia

BancoSol is a microfinance bank and the first microfinance institution in history, committed to meeting the financial needs of Bolivia's micro entrepreneurs and small business owners.

Data Science Intern   Jul 2023 – Aug 2023

- Worked in cross-functional teams to develop machine learning models using Scikit-Learn, NumPy and Pandas, meeting deadlines in a dynamic banking environment.
- Collaborated with professionals specialised in different areas of the data science process to apply crucial learning outcomes to real life scenarios.
- Analysed large datasets using Pandas to extract meaningful insights and improve the accuracy of predictive models

BancoSol   La Paz, Bolivia

Financial Risk Analyst Intern   Jun 2023 – Jul 2023

- Evaluated financial data and identifying risk factors, enabling active problem solving and constant analytical thinking.
- Enhanced communication skills by translating complex financial data into clear reports for stakeholders.
- Assisted in the development of risk assessment models, helping to forecast potential financial threats and support strategic decision-making.

Hocicos del Mundo La Paz, Bolivia
Hocicos del Mundo is a dog shelter with over seven years of experience in rescuing and caring for stray dogs until they can find a new family.
Volunteer Feb 2021 – Oct 2021
- Collaborated with volunteers to maintain a clean, safe environment for animals.
- Adapted to rapidly changing situations, managing behavioural issues or providing immediate care for animals in need.
- Improved communication by coordinating with shelter staff in a fast-paced environment.

Carhartt WIP London, UK
Carhartt WIP is the streetwear branch of the American clothing brand founded in 1889.
Sales Floor Team Member Jul 2018 – Aug 2018
- Managed high customer traffic by collaborating efficiently with colleagues.
- Maintained productivity and service quality under pressure.
- Increased customer interest and sales by actively supporting customers.

Projects

Habify – IOS/Android Full-Stack Mobile App | *JavaScript, React Native, Expo, React Query, Firebase, NoSQL, Figma*
* "Best Overall Concept" Winner in University Hackathon
- Developed a Full-Stack React Native mobile application that aims to gamify self-development through daily quests.
- Designed and implemented a NoSQL database using Firestore.
- Deployed mobile app to Test Flight using Expo Application Services (EAS) to gather user feedback.
- Utilised React Query to manage server state and caching, optimizing data fetching and improving application performance.

EfficientVis – Computer Vision Testing Web App | *JavaScript, React, Python, PyTorch, NumPy, Pandas, Flask*
- Developed a web app where users can test their own images on various pretrained computer vision models locally.
- Implemented a Flask API to handle requests and run deep learning models.
- Integrated torchvision transforms to preprocess images for model input, enhancing accuracy in predictions through normalization and resizing.
- Front-end was implemented with React, enabling seamless user interaction with the models and displaying results effectively, with options for more predictions and normalisation.
- Managed model configuration for multiple EfficientNet model variants.

CodeZoo – Full-Stack Web App | *TypeScript, React, Next.js, OAuth, PostgreSQL, React Query, Supabase*
- Currently developing a full-stack web app using TypeScript, React, and Next.js where users can track time spent coding and earn gems to build a virtual zoo.
- Developed a PostgreSQL database to efficiently store user data, including coding activity and zoo state.
- Integrated OAuth authentication to allow secure user logins with GitHub.

Languages
- English (Fluent) - Spanish (Fluent)

References
Reference available upon request