

# Marcel Mateos Salles

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## EDUCATION

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**Brown University, B.S. Computer Science-Economics**

**Providence, RI**

• **GPA:** 4.00/4.00

*Expected Graduation May 2026*

• **Relevant Courses:** SWE, Data Structures & Algorithms, Discrete Math, OOP, Deep Learning, Comp. Ling. (NLP), Logic for Sys.

## PROJECTS

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**Little Label Learners (School)** - Python, Tensorflow, Keras, Numpy

*May 2024*

- Pioneered the development of a biology-mimicking deep learning model that enhances adaptability and minimizes data requirements
- Implemented a seamless transition from self-supervised to semi-supervised learning, along with dynamic category introduction
- Demonstrated ability to outperform purely self-supervised learning while coming within 10% of fully-supervised learning

**SpacePals (Personal)** - Python, Javascript, React, CSS, GraphQL

*Feb 2024*

- Spearheaded development of webapp that allows users to “capture” different space animals by taking pictures of them
- Engineered frontend system that’s updated in real-time as the backend utilizes CLIP to classify the image taken
- Integrated GraphQL to establish efficient communication between the frontend and backend systems

**SpotiDuo (School)** - Java, Python, Typescript, CSS, React, Spark

*Dec 2023*

- Built a webapp that allows users to learn languages by listening to songs in other languages by filling in lyrics to reinforce listening
- Led the backend team and designed architecture for interaction between frontend and backend
- Utilized Spotify API to get metadata from songs and developed a recommendation algorithm to prompt users with new songs

## WORK EXPERIENCE

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**Brown University**

**Providence, RI**

**Researcher - Balestriero Lab**

*Oct 2024 – Present*

- LoRA Users Beware: A Few Spurious Tokens Can Manipulate Your Finetuned Model (<https://arxiv.org/abs/2506.11402>)
- Researching spurious correlation in large language models and building techniques to detect and remove it
- Developing an extensive open source library allowing users to customize large language models to use in their own research

**Pinterest**

**Palo Alto, CA**

**Software Engineer Intern**

*May 2025 – Aug 2025*

- Owned creation of DevAI observability tool leveraged by all 2000 engineers, reducing MTTR by 30 min per engineer per use
- Drove end to end development of an MCP server and RAG system that securely exposes internal tools and knowledge to AI agents
- Trained a novel anomaly detection model from unstructured and unlabeled system logs, decreasing rate of false negatives by 20%

**Brown University**

**Providence, RI**

**Teaching Assistant - Deep Learning**

*Dec 2024 – May 2025*

- Develop and teach lectures to 200+ students covering complex deep learning techniques and research papers
- Host office hours to debug students’ code, explain lecture/assignment content, and mediate collaboration among students

**Dexcom**

**San Diego, CA**

**Software Engineer Intern**

*Jun 2024 – Aug 2024*

- Worked in mobile development team, designed mobile architectures and application for an iOS and Android app
- Conducted market research and developed three novel features for CGMs, unlocking new market of 700k users
- Developed a dynamic algorithm leveraged throughout Dexcom’s software suite, specific to the needs of the new 700k stakeholders

## EXTRACURRICULAR ACTIVITIES

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**Brown University Men’s Swimming and Diving**

**Providence, RI**

**NCAA Division I Student-Athlete, Diving Team Captain**

*Aug 2022 – Present*

- Balance 25-hour training weeks, competitions, and travel while managing a full academic workload
- Lead a group of ten divers through workouts, fostering team cohesion and motivation while coordinating all team communication

## SKILLS & INTERESTS

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• **Languages:** Native proficiency in Spanish and English

• **Programming Languages:** Java, Python, Javascript, Typescript, R, Stata

• **Technical Skills:** NumPy, API & Server Dev, Git, Spark, Kubernetes, Pytorch, Machine Learning, AWS, System Arch, Agile, React

• **Interests:** Cycling, Hiking, Fantasy Novels, Trying new foods, Traveling, Indie Music