

Matias Bronner

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Education

Brown University, *Sc.B. Computer Science and Economics* Sep 2023 – May 2027
GPA: 3.94/4.00 **Coursework:** Data Structures & Algorithms, Computer Systems, Foundations of AI, Deep Learning, Applied Cryptography, Investments, Econometrics

Experience

Micron Technology May 2026 – Aug 2026
SSD AI Telemetry Intern Boise, ID

- Exploring agentic AI for SSD testing and reliability workflows, with a focus on automating test development and improving engineering feedback loops.
- Developing AI telemetry tooling for SSD data analysis, supporting anomaly detection, reliability insights, and debugging workflows.

Brown University Sep 2025 – Present
Teaching Assistant, Foundations of AI Providence, RI

- Supported 100+ students across reinforcement learning, adversarial search, and Q-learning using **NumPy**, **TensorFlow**, and **PyTorch**; maintained the course website and debugged assignments prior to release.

St. Luke's Health System May 2025 – Aug 2025
Full Stack Intern Boise, ID

- Built and deployed a full-stack **Flask** app parallelizing scraping (**Selenium**, **Google CSE**) and **GPT-4** description generation across 40,000+ medical products via background threading.
- Implemented thread-safe state management with lock-guarded DataFrames and a session-driven review queue for supply chain staff to inspect, edit, and export results without data races.

Projects

Skin Lesion Classifier Python, PyTorch, ConvNeXt

- Multimodal fusion model across 7 categories; fine-tuned ConvNeXt-Base with LP-FT staging fused with a tabular MLP. Macro-F1 0.679, beating image-only (0.65) and tabular-only (0.17) baselines.

TikTok Speech Trend Analyzer Python, Whisper, Pandas, scikit-learn

- Daily pipeline transcribing top TikTok creators' audio, scoring per-word "weirdness" against English baselines with significance testing, and tracking vocabulary trends across dated snapshots.

Anonymous Voting System C++, CryptoPP

- Cryptographically secure voting system implementing zero-knowledge proofs, ElGamal threshold encryption, and RSA blind signatures.

Go AI Agent Python, PyTorch, NumPy

- MCTS agent with Iterative Deepening and custom heuristics; **won the class-wide Brown Go AI competition**, outperforming 70 bots.

Leadership & Activities

FinTech@Brown Jun 2025 – Present
Treasurer & Web Developer Providence, RI

- Manage finances, established partnerships with fintech firms across Providence and Boston, and built the [club website](#).

Hispanic Scholarship Fund Jun 2023 – Present
National Hispanic Scholar & Mentor

- Selected from 120,000+ applicants for academic excellence and leadership; mentored 5 students to Harvard, Yale, USC, and Amherst.

Brown Jazz Band, Boise Philharmonic Youth Orchestra, & BHS Jazz Band Sep 2020 – Present
Percussionist and Drummer — Performed alongside students and professionals; largest audience of 8,000+.

Technical Skills

Languages: Python, C, C++, Java, JavaScript, TypeScript, HTML/CSS

Frameworks: React, Next.js, Flask, Express.js

Libraries: PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn, NLTK, Matplotlib

Tools: Git, Docker, Selenium, REST APIs, Whisper, Visual Studio, IntelliJ