

Mason Acevedo

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WORK EXPERIENCE

DreamDAI, San Francisco

May 2025 - Present

Software Engineer

- Optimized a cross-platform mobile application (iOS + Android), **driving a 15% increase in monthly active users**.
- Designed & launched a Social Profile feature with granular privacy controls, projected to **increase user engagement by 10%**.
- Designed a scalable, modular API layer enabling rapid feature iteration, decreasing integration times.
- Implemented an automated data-management pipeline ensuring profile data accuracy and compliance.

Pure Storage, Santa Clara

Feb 2024 - Apr 2025

Software Engineer

- Optimized data-processing algorithms powering user-facing performance metrics, **reducing backend-frontend latency by 15%** and enabling smoother real-time insights.
- Developed automated validation tests (Cypress + custom Python checks) to ensure data integrity and stability, **lowering release-time defects by 10%**.
- Built Python-based performance-analysis pipelines that processed stress-test data and Jenkins logs.

PlanetScape AI, San Francisco

June 2023 - Dec 2023

Software Engineer

- Automated satellite-imagery ingestion and preprocessing pipelines using Python + ArcGIS APIs, **reducing manual data handling time by 30%**.
- Trained and evaluated scikit-learn models for pattern detection, **improving baseline prediction accuracy by 10%**.
- Optimized CSV/JSON processing workflows for large geospatial datasets, **cutting end-to-end data processing time by 15%**.

PROJECT EXPERIENCE

masonacevedo.com - Deep Learning Image Recognition | PyTorch, Flask

- Fine-tuned a ResNet-18 model on CIFAR-10, **improving classification accuracy to 90%**.
- Built a Flask-based inference API and optimized data flow, **reducing model response latency by 20%** for real-time image classification.
- Developed a lightweight vanilla JS frontend that improved user interaction efficiency, **lowering image upload-to-result time by 30%**.

TECHNICAL SKILLS

Languages & Tools: Python, Java, C++, SQL, Pandas, Git, Linux, VS Code

Frameworks: React, Node.js, Flask, FastAPI, Django, Express, PyTorch, TensorFlow, NumPy

Databases: PostgreSQL, MySQL, MongoDB, Redis, Firebase

Cloud & DevOps: AWS, GCP, Docker, Kubernetes, CI/CD, REST APIs

CS Fundamentals: Data Structures, Algorithms, OOP, System Design, Testing

PUBLICATIONS

Acevedo, M., Blackburn, A., Blinov, N., Shuve, B., & Stone, M. (2021). Multi-track displaced vertices at B-factories. *Journal of High Energy Physics*, 9, 154. [https://doi.org/10.1007/JHEP09\(2021\)154](https://doi.org/10.1007/JHEP09(2021)154)

Andrés Cook, Kaanthi Pandhigunta, **Mason A Acevedo**, Adam Walker, Rosalie L Didcock, Jackson T Castro, Declan O'Neill, Raghav Acharya, M Saad Bhamla, Philip S L Anderson, Mark Ilton, A Tunable, Simplified Model for Biological Latch Mediated Spring Actuated Systems, *Integrative Organismal Biology*, Volume 4, Issue 1, 2022, obac032, <https://doi.org/10.1093/iob/obac032>

EDUCATION

Harvey Mudd College, California

Bachelor of Science in Mathematics

Graduation: 2022