

# Brett Schwartz

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## EDUCATION

### Arizona State University

Tempe, AZ

Bachelor of Science in Computer Science - 3.82 GPA, Dean's List

Expected Graduation – May 2027

## EXPERIENCE

### Undergraduate Research Assistant

January 2026 – Present

ASU Cosmology Group | Python, Linux, Hubble & Webb Data

Tempe, AZ

- Selected to analyze **Hubble and JWST** data via **Python** studying **Cosmic Reionization** & galaxy evolution.

### Open Source Contributor

December 2025 – Present

Anki | Rust, Python, Svelte, TypeScript

Remote

- Redesigned FSRS UI resolving styling inconsistencies using TypeScript & Svelte impacting **3M+** active users.
- Authored Rust regression tests securing media-check logic against multi-byte filenames, ensuring data integrity.
- Developed an Anki add-on with **50+** active users helping track time improvements taken to get each flashcard.

### AI Engineer Intern

June 2025 – August 2025

Nextiva | Python, FastAPI, Flask, React.js, TypeScript

Scottsdale, AZ

- Engineered a **RAG** model using **LangChain** and **Pinecone** ingesting and querying upon **500+** sales calls daily.
- Optimized ETL pipelines for high-volume data, cutting end-to-end latency by **90%** enabling real-time analytics.
- Developed an internal analytics platform used by **500+** daily active users, enabling real-time access to insights.

## PROJECTS

### Predictive NFL Model | Python, XGBoost, Scikit-Learn, Pandas

December 2025 – Present

- Designed a data pipeline processing **+3 seasons** of play-by-play data, feature engineering **10** rolling data points.
- Developed an XGBoost model with time-series cross-validation achieving **70.8%** winner accuracy on unseen data.
- Optimized predictions via RFECV feature selection & scaling, reducing mean absolute error by **2.6%** on holdout.

### Tegaki | Next.js, TypeScript, Python, Tailwind CSS, PyTorch | tegaki.vercel.app

January 2025 – March 2025

- Developed a **full-stack** Japanese handwriting app allowing users to receive customized handwriting feedback.
- Architected a **Siamese Deep Neural Network** with PyTorch achieving **94%** similarity accuracy on new data.
- Optimized neural network inference to run in **.8ms** on GPU and greater than **10k samples/sec** throughput.
- Implemented **Gemini API** to generate customized text feedback given user input and neural network output.

### Portfolio Website | Next.js, TypeScript, GSAP, Tailwind CSS | brettschwartz.vercel.app

May 2025 – June 2025

- Designed a fully custom, animated portfolio website using **Next.js** and **GSAP** displaying career experiences.
- Implemented full **CI/CD pipeline** with Vercel & GitHub Actions, automating deployment to **<30** seconds.

## EXTRACURRICULAR

### NASA L'SPACE Academy | NPWEE Scholar

January 2026 – May 2026

- Selected for a competitive 12-week NASA program focusing on technical proposal writing and mission design.
- Collaborating in a multidisciplinary team to compete for **\$10,000 in NASA seed funding** for mission concepts.

### Kaggle Tournaments | 2x Top 25%

December 2025 – Present

- Developed models (Random Forest, XGBoost, Neural Networks) using Scikit-learn achieving **+80%** accuracy.
- Engineered data pipelines utilizing Pandas and NumPy for feature selection, cleaning data, and cross-validation.

### Software Developers Association (SoDA)

September 2024 – December 2024

- Oversaw the team development of a full stack web app (Tegaki) which was selected to present to **50+** Alumni.

## TECHNICAL SKILLS

**Languages & Databases:** Python, Java, TypeScript, JavaScript, SQL, PostgreSQL, MongoDB, HTML/CSS

**Frameworks & Runtimes:** React, Next.js, Spring Boot, FastAPI, Flask, Express.js, Node.js, LangChain

**AI, ML & Data Science:** PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, Power BI

**Cloud & DevOps Tools:** AWS, Azure, Docker, Kubernetes, Vercel, Supabase, Github Actions, Gitlab CI/CD

**Developer Ecosystem:** Linux (Ubuntu/Debian), Git, Figma, Jest, Tailwind CSS, ShadCN, Framer Motion, GSAP