

Brett Schwartz

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EDUCATION

Arizona State University <i>Bachelor of Science in Computer Science - 3.82 GPA, Dean's List</i>	Tempe, AZ <i>Expected Graduation - May 2027</i>
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EXPERIENCE

Undergraduate Research Assistant <i>ASU Cosmology Group Python, Linux, Hubble & Webb Data</i>	January 2026 – Present <i>Tempe, AZ</i>
• Selected to analyze Hubble and JWST data via Python studying Cosmic Reionization & galaxy evolution.	
Open Source Contributor <i>Anki Rust, Python, Svelte, TypeScript</i>	December 2025 – Present <i>Remote</i>
• 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 <i>Nextiva Python, FastAPI, Flask, React.js, TypeScript</i>	June 2025 – August 2025 <i>Scottsdale, AZ</i>
• 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 <i>Python, XGBoost, Scikit-Learn, Pandas</i>	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 <i>Next.js, TypeScript, Python, Tailwind CSS, PyTorch</i> 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 <i>Next.js, TypeScript, GSAP, Tailwind CSS</i> 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