

Drew Bomar

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EDUCATION

WASHINGTON UNIVERSITY, McKelvey School of Engineering | St. Louis, MO

May 2027

Bachelor of Science in Computer Science, Minors in Finance and Jazz Studies

GPA: 3.5

- Student-Athlete: Varsity Football – Slot Receiver
- Dean's List, Academic All-Conference (2023 - 2025)

SKILLS

Languages: Python, Java, SQL, C++, JS, TS Frameworks & Tools: PostgreSQL, FastAPI, React, GCP, AWS, Git, Docker

EXPERIENCE

SoFi | San Francisco, CA

June 2026 – August 2026

Software Engineering Intern – SoFi Tech Solutions Console Team

- Designed and shipped a FastAPI endpoint that combines database and runtime configuration data, supporting workflows that processed 4,218 ACH files and 4.2M transactions across 42 banks in its first month in production.
- Collaborated with senior members of the ACH team to modernize legacy processing workflows through backend data retrieval, transformation, and response modeling
- Strengthened authentication and authorization by standardizing service-to-service access, removing deprecated auth flows, and fixing a fail-open permissions vulnerability

Tech Stack: Python, FastAPI, Pydantic, SQLAlchemy, Oracle, AWS AppConfig, Auth0/JWT, Pytest, Docker, GitLab

Nexus NIL AI | Remote

July 2026 – August 2026

Backend Engineer – Part-Time

- Built an end-to-end Plaid integration for bank linking, transaction syncing, investment holdings, encrypted access tokens, and secure webhook processing across 9 REST endpoints
- Integrated a white-label LLC formation provider with idempotent user provisioning, signed webhooks, and a forward-only filing state machine
- Architected an AWS S3 and CloudFront asset pipeline, separating public media from private athlete documents and correcting a broken Django storage configuration

Tech Stack: Python, Django/DRF, PostgreSQL, AWS (S3, CloudFront), Plaid, FileForms, Docker, GitHub Actions

Home Depot | Atlanta, GA

May 2025 – July 2025

AI Infrastructure Engineering Intern – Cloud AI Team

- Launched format expansion for the Retrieval-Augmented Generation (RAG) pipeline supporting Magic Apron, Home Depot's Enterprise LLM, by developing first-ever ingestion support for Word and PowerPoint formats
- Designed and implemented a standardized PDF conversion pipeline and an intelligent extractor for PowerPoints that routes components (text, images, tables, charts) to optimized processing paths
- Achieved a 9x faster average processing time for complex files with preserved semantic fidelity and retrieval quality
- Integrated with GCP infrastructure, including asynchronous pipelines via Pub/Sub, storage in BigTable, embedding generation via Vertex AI, and indexing in Vector Search for real-time semantic retrieval

Tech Stack: Python, GCP (Pub/Sub, BigTable, Vertex AI, Cloud Logging, GKE), Kubernetes, python-pptx, Gemini 2.0

PROJECTS

NCAA DIII Football Prediction Model

July 2025 – Current

- Built an end-to-end machine learning system to predict NCAA Division III football game outcomes, achieving an average weekly accuracy of 79.95% predicting game winners for the 2025 season
- Engineered 70+ predictive features, including rolling team metrics and a custom Elo system that improved model accuracy by 15%+
- Developed a GraphQL ETL pipeline and trained calibrated logistic regression models using scikit-learn, isotonic regression, and time-based cross-validation

Tech Stack: Python (pandas, scikit-learn, SQLAlchemy), PostgreSQL, GraphQL API, Matplotlib, Git

ACTIVITIES

WASHINGTON UNIVERSITY FOOTBALL | St. Louis, MO

August 2023 – Current

- Dedicate 30+ hours weekly to practices, training, and games
- Developing strong communication, teamwork, and leadership skills while collaborating with coaches and teammates

INTERESTS - Jazz Guitar, Chess, and Yoga