

Juwan Burns

Davenport, IA — juwan2003@icloud.com — github.com/Bound2Skool18 — linkedin.com/in/juwan-burns

Education

Bachelor of Science in Computer Science

St. Ambrose University, Davenport, IA

- Honors: Dean's List

Graduation Date: Dec 2027

GPA: 3.5

Associate of Applied Science in Computer Programming

Southern Crescent Technical College, Griffin, GA

- Honors: President's List, Dean's List

May 2025

GPA: 3.80 / 4.0

Technical Skills

- **Languages:** Python, Java, JavaScript, TypeScript, SQL, C++
- **Frameworks & Libraries:** React, FastAPI, Flask, Spring Boot, Spring Data JPA, Pandas, NumPy, TensorFlow, Scikit-Learn, Streamlit
- **AI/ML:** LLM fine-tuning (LoRA), RAG pipelines, RLHF evaluation, prompt engineering, vector search (FAISS, ChromaDB)
- **Infrastructure & Tools:** Docker, Git, PostgreSQL, REST APIs, WebSockets, Kafka, OAuth 2.0, AWS (SQS, DynamoDB, CloudWatch), VS Code, PyCharm

Experience

Henry County Schools

Afterschool Program Instructor

Mcdonough, GA

Jul 2023 – Apr 2025

- Led STEM education sessions for K–5 students integrating VEX GO robotics to teach foundational programming logic.
- Managed hands-on collaborative learning for groups of 20+ students.

Extern

Data Analytics Extern – Hosted by Beats by Dre

Remote

Jul 2025 - Aug 2025

- Analyzed Gen Z sentiment toward audio brands using Python and NLP techniques.
- Built an interactive dashboard surfacing actionable marketing insights from structured data analysis.

Extern

Augmented Reality Storytelling Extern – Hosted by Snap Inc.

Remote

Sep 2025 – Oct 2025

- Built interactive AR lenses in Snap Lens Studio applying digital storytelling and user interaction design principles.
- Produced high-fidelity AR prototypes integrating user interaction design principles, demonstrating proficiency in spatial storytelling and lens-based UI/UX.

Handshake AI

Data Labeling Contractor

Remote

Nov 2025 – Dec 2025

- Assessed AI model outputs across diverse topics for accuracy, tone, and instruction-following quality.
- Flagged hallucinations and factual errors in long-form text generation with structured written feedback.
- Maintained high data consistency by adhering to complex, multi-page project rubrics in a remote contract environment.

Extern

IoT Cyber Defense Extern – Hosted by Hydroficient

Remote

Jan 2026 - Apr 2026

- Built an AI-driven anomaly detection prototype in Python and Streamlit to flag irregular IoT sensor behavior.
- Conducted MQTT security testing, analyzing replay attack vulnerabilities and evaluating mitigations including timestamp validation, sequence counters, and HMAC signing.
- Delivered a security defense comparison report documenting findings and hardening recommendations for smart water infrastructure.

Extern

AI-Powered Document Intelligence Extern — Hosted by Pfizer

Remote

May 2026 – Present

- Building an AI prototype to automate extraction and classification of clinical supply documents using OCR engines (Tesseract, PaddleOCR) and PDF parsers (PyMuPDF, pdfplumber).
- Implementing a RAG pipeline with FAISS/Chroma and LLM integration (Gemini/Mistral) for intelligent search over scanned and digital clinical document collections.
- Producing structured JSON output with field-level extraction and a Streamlit UI for querying document repositories.

St. Ambrose University

Undergraduate Summer Research Student

Davenport, IA (Remote)

Jun 2026 – Jul 2026

- Participating in the 2026 Undergraduate Summer Research Initiative (USRI), applying machine learning to predict protein biological functions.
- Fine-tuning ESM-C (a protein language model by EvolutionaryScale) using LoRA (Low-Rank Adaptation) to predict Gene Ontology (GO) function labels across ~28,000 classes.
- Building and preprocessing datasets from the Proteinext benchmark using Python and Pandas.
- Implementing a frequency-based naive baseline as an experimental benchmark.

FlyRank AI

Front-end AI Engineer – Internship

Remote
Jul 2026 – Present

- Building responsive web applications using React, Next.js, and Tailwind CSS.
- Developing mobile-optimized user interfaces with an emphasis on visual fidelity, accessibility, and responsive design.
- Leveraging AI-assisted development tools to accelerate implementation, debugging, and testing workflows.
- Creating production-ready website and e-commerce-style experiences while documenting QA processes and implementation decisions.
- Deploying web applications using modern hosting platforms and frontend development best practices.

Projects

Meta Developer Analytics Dashboard

Flask, React, PostgreSQL, Meta Graph API, OAuth 2.0, Docker, Render

- Built a full-stack developer analytics platform integrating Meta's Graph API with OAuth 2.0 auth, paginated data ingestion, and a Python content scoring model with weighted composite metrics exposed via REST endpoints.

Credit Card Fraud Detection System

Python, Scikit-Learn, XGBoost, SMOTE, Streamlit

- Trained and compared three ML models — Random Forest (F1: 0.855), XGBoost (F1: 0.634), Logistic Regression (F1: 0.099) — addressing class imbalance with SMOTE across 30 PCA-transformed transaction features.
- Deployed interactive Streamlit dashboard for real-time fraud risk classification (High/Moderate/Low) with probability scores and feature importance visualization.

Open Tsushima — Domain-Specific Search Engine

Python, FAISS, FastAPI

- Built semantic search system using BM25 + dense embeddings + FAISS indexing with NDCG/MRR evaluation metrics.

Spam Classifier — TensorFlow LSTM Model

Python, TensorFlow, Keras

- Trained LSTM spam classifier; exported to Keras, SavedModel, and TFLite with a JSON-based CLI for inference.

Technical Certifications

- **IBM Professional Certificate** — DevOps, Cloud, and Agile Foundations (IBM, via Verizon Skills Forward, Apr 2026)
- **AMD AI Academy** — LLM Serving with vLLM & MI300X GPUs; Fine-tuning Reasoning Models (Unsloth); AI Agents 201 & 101 (Jan 2026)
- **CodePath** — Intro to Cybersecurity, Honors (2026)
- **Software Engineering Job Simulation** (Forage, Dec 2024) — Built key components of a Midas transaction-processing system: integrated Kafka for high-volume message ingestion, implemented transaction persistence with Spring Data JPA and H2, connected a REST Incentive API via RestTemplate, and verified end-to-end behavior with Maven test suites.