

Moriah Bender

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EDUCATION

Towson University – Towson, MD

May 2026

Bachelor of Science in Computer Science, Software Engineering Track

Relevant Coursework: Data Structures & Algorithm Analysis, Discrete Mathematics, Software Engineering, Software Quality Assurance & Testing, Object-Oriented Design & Programming, Database Management Systems, Operating Systems, Linear Algebra

PROFESSIONAL EXPERIENCE

Senior Recruiter / Talent Acquisition Specialist

July 2017 – Dec 2021

Bankers Life – Joppa, MD

- Worked in a client-facing environment and managed end-to-end candidate pipelines for offices nationwide, screening and evaluating applicants against role requirements. Partnered with hiring managers as a talent consultant to define hiring needs, prioritize openings, and keep cross-functional stakeholders aligned.

SOFTWARE ENGINEERING PROJECTS

ML-Based Software Test Reliability Prediction | [GitHub](#) | Python, scikit-learn, XGBoost, Pandas

Jan – May 2026

Software Engineer / ML Researcher

- Developed an end-to-end Python machine learning pipeline to predict flaky Java tests using static code features, integrating feature extraction, model training, and performance evaluation without requiring repeated test executions.
- Engineered 40+ features (naming patterns, test smells, run-history statistics) across the FlakeFlagger (~22K tests) and iDFlakies datasets.
- Conducted four comparative experiments with 5-fold stratified cross-validation; the static-feature XGBoost model reached 0.56 F1, 2.3x the test-smell-only baseline (0.25).

Spark: Real-Time Dating App | [Live Demo](#) | React, TypeScript, FastAPI, Socket.io

Aug – Dec 2025

Frontend Developer

- Built the frontend for a deployed web app, including matchmaking, profile, and live chat interfaces, with React, TypeScript, Tailwind CSS, and React Router.
- Integrated Socket.io WebSockets for real-time matching and messaging, connected to a Python FastAPI REST backend with Supabase phone OTP authentication.

TU RideShare iOS App | [GitHub](#) | Swift, SwiftUI, Node.js, MapKit

Aug – Dec 2025

Software Engineer

- Developed a full-stack ridesharing iOS app using Swift and SwiftUI, implementing rider and driver interfaces and integrating functionality with a Node.js/Express.js backend.
- Implemented real-time GPS tracking and animated map annotations with MapKit and Core Location.

Real-Time Hand Gesture Recognition for Live Video | Python, MediaPipe, OpenCV, Flask, Raspberry Pi

Dec 2024

Software Developer

- Built a real-time MediaPipe/OpenCV pipeline classifying hand gestures from 10 tracked landmarks.
- Streamed detected motions via Socket.IO to a Flask client applying zoom, flip, and darken effects.
- Migrated from TensorFlow Lite to MediaPipe for accuracy; resolved Raspberry Pi dependency conflicts.

Playlist Manager | Java

Aug – Dec 2023

Java Software Developer

- Built a Java application with CRUD operations, object serialization for persistence, custom multi-field comparators, and input validation, applying object-oriented design with interfaces and inheritance.

TECHNICAL SKILLS

- **Languages:** Java, C++, Python, TypeScript, JavaScript, Swift, SQL, HTML/CSS
- **Frameworks & Testing:** React, Node.js, Express.js, FastAPI, SwiftUI, JUnit, pytest, Unit Testing, Test Automation
- **Data & ML:** scikit-learn, XGBoost, Pandas, NumPy, Jupyter Notebook
- **Tools & Platforms:** Git/GitHub, MySQL, Supabase, REST APIs, WebSockets, Linux, Xcode, Vercel, Agile/Scrum