# Ariya Briscoe

ariyabriscoe@gmail.com | LinkedIn | ryebriscoe.github.io

## EDUCATION

**California State University, Monterey Bay** **Expected Dec 2026**
Bachelor of Science in Computer Science, Concentration in Software Engineering. GPA: 3.6
*Relevant Coursework:* Machine Learning, Algorithms, Data Structures, Software Engineering, Database Systems, Operating Systems

**West Valley College** **Apr 2024**
Associate of Science in Liberal Arts: Science & Mathematics. Dean's List

## CERTIFICATIONS

- **Generative AI with Large Language Models**, DeepLearning.AI / Coursera (Completing Oct 2026)
- **IBM AI Engineering Professional Certificate**, IBM / Coursera (In Progress)
- **Google Project Management Professional Certificate**, Google / Coursera (In Progress)

## SKILLS

**Programming Languages:**
*Proficient:* Python, Java, SQL | *Working knowledge:* C, C++, JavaScript, HTML, CSS, x86 Assembly
**Technologies:**
*Proficient:* Git, GitHub, Spring Boot, scikit-learn, NumPy | *Working knowledge:* Hugging Face Transformers, Matplotlib, Seaborn, UMAP, RF-DETR, ByteTrack, EasyOCR, Flask, JUnit, JavaFX, PySide6, Docker, AWS, Cloudflare Pages, PostgreSQL, SQLite, n8n, FFmpeg

## PROJECTS

**B.A.D. (Basketball Action Detector)** | Independent Research Project (In Progress) **2026**
- Building a computer vision system that analyzes NBA broadcast footage to classify and predict offensive plays, using Qwen3-VL as the core vision-language model for play recognition
- Engineering a multi-stage pipeline combining RF-DETR for player detection, ByteTrack for multi-object tracking, EasyOCR for scoreboard extraction, and homography for court mapping
- Built around a reproducible Colab notebook builder script as the single source of truth for the pipeline

**Automated Short-Form Video Pipeline** **2025**
- Architected a fully autonomous pipeline that generates, narrates, assembles, and publishes kids' educational short-form videos to YouTube, Instagram, and TikTok, producing 200+ videos and 600K+ total views
- Integrated Claude API (scripts), gTTS (narration), Pollinations.AI (visuals), and FFmpeg (assembly) into one workflow
- Deployed on Railway.app with n8n workflow orchestration for scheduled, hands-off publishing across all three platforms

**Course Gradebook System** | CST 438 Software Engineering (Team Project) **2026**
- Built a microservice-based gradebook platform across frontend, gradebook, and registrar services, with REST endpoints that let instructors retrieve and update student grades in real time
- Built Spring Boot backend logic with authentication and JUnit tests, deployed to AWS

**JavaFX Trivia & Auth Application** | Team Project **2026**
- Built login and registration with a custom SceneFactory router enforcing separate user and admin flows
- Implemented secure registration with SQLite persistence following MVC architecture, and built reusable form validation patterns adopted across the team codebase

## EXPERIENCE

**Freelance Web Developer** | Self-Employed **Feb 2026 – Present**
- Designed, built, and launched responsive multi-page websites for 3 small-business clients: a wellness practice, a card-reading service, and a staffing firm
- Led requirements calls and client questionnaires to map each client's existing booking and payment workflow before building
- Integrated the Cal.com scheduling API for online booking with owner approval; deployed on Cloudflare Pages with custom domains and versioned GitHub releases

**Sports Trainer & Sales Associate** | Shoot 360 **2022 – 2023**
- Trained and mentored 100+ youth athletes in basketball fundamentals across camps and facility sessions
- Sold training sessions, memberships, and packages on commission by building ongoing client relationships

## ACTIVITIES & LEADERSHIP

**NCAA Division II Men's Basketball, Student-Athlete** | CSUMB **2024 – Present**
**Men's Basketball, Student-Athlete** | West Valley College, undefeated 3C2A State Champions **2022 – 2024**
**Service Learning Volunteer** | Kiwanis of Pacific Grove **Spring 2025**
- Organized logistics for community fundraising events and helped improve scheduling and communication with nonprofit partners