ARIANA SHELTON

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SKILLS

- C, Java, Python, C#, React.js, JavaScript, SQL, HTML, CSS, Visual Basic, Next.js, PHP
- Git, Docker, APIs, Fullstack, .NET, MVC, Adobe, Azure, Linux, Kibana, Grafana, CI/CD, Bash

INTERNSHIP EXPERIENCE

American Express: *Software Engineer Intern (Phoenix, AZ)*   06/2025 – 08/2025
- Improved audit compliance by enriching metadata for **3M+ cryptographic keys** using Java, contributing to a **15% reduction in security gaps** flagged in internal audits.
- Automated inventory of a **30M-line JSON key dump** by developing a scalable Python parser accessed via a **Spring Boot REST API**, reducing processing time by **95%** and enabling export to CSV.
- Enhanced logging transparency by modifying JSON workflows to include cryptographic keys in transaction logs using Java with Amex's **CI/CD** pipeline.
- Achieved **100% code coverage** by developing Gherkin BDDs and writing comprehensive **JUnit (Java)** and **unittest (Python)** tests to validate new functionality.

Emergente: *Backend Software Engineer Intern (Abroad - Colombia)*   06/2024 – 08/2024
- Developed digital energy calculator using **JavaScript** and **Next.js** to compute consumption across international regions, expanding energy access to **1,200+ citizens** in underdeveloped communities.
- Modernized product infrastructure by rewriting **10+ legacy PHP** modules to Next.js.
- Improved app performance by debugging and enhancing **C#** logic, resulting in smoother interactions.
- Bridged language gaps by translating technical concepts across **bilingual** teams, accelerating development in a cross-cultural setting.

Sandhills Global: *Software Developer Intern*   04/2023 – 06/2024
- Delivered a new employee enrollment app by developing **1,500+ lines of code**, reducing HR workload.
- Streamlined onboarding for **1,000+ customers** by migrating a high-traffic registration page from **Visual Basic** to modern **JavaScript, jQuery,** & **React.js** using **MVC** architecture.
- Delivered **React.js auction platform** with **10+ integrated internal APIs** and **100+ product listings**, enabling live bidding with zero downtime in beta launch.
- Resolved complex issues in over **100 C# data models** through code refactoring, boosting stability.
- Elevated team performance by **mentoring** 5 new hires on modern tools, accelerating onboarding by **3 weeks**.

Mosaic Lifecare: *IT Intern*   05/2021 – 06/2022
- Processed and updated **1,000+ pieces** of IT equipment in asset management systems, reducing inventory discrepancies by **20%** and improving audit readiness.
- Diagnosed and resolved **150+ hardware and software issues** for staff and customers, improving average ticket resolution time by **25%**.
- Redesigned and maintained the company intranet using **HTML, CSS, and JavaScript**, streamlining daily staff access to resources and reducing navigation time by **15%**.

PERSONAL PROJECT

Range Finder & Alarm Arduino Microcontroller Board   03/2024 – 06/2024
- Developed modular **C and C++** firmware in **PlatformIO** using the **Arduino** core and **CowPi** library to interface with an ultrasonic sensor, measure object distance in real time, and trigger an automated alarm based on user-defined thresholds.
- Implemented serial communication controls allowing users to adjust distance thresholds at runtime, achieving **±1 cm** measurement accuracy through sensor calibration and optimized signal processing.

EDUCATION & LEADERSHIP

University of Nebraska-Lincoln || Lincoln, NE   August 2022 – May 2026
Bachelor's: Computer Science, Minor: Business, GPA: 3.5
Achievements/Programs: David's Distinguished Award, Dean's List, Tri Delta Sorority, Multicultural Engineering Program, Women in Engineering, Honors, Engineering Student Advisory Board (eSAB), INROADS Intern, Initialize UNL, Engineers Without Borders, Raikes Honors Design Studio
Volunteering/Contributions: Emergente Software Volunteer (Unpaid Abroad Startup Work for Underdeveloped Countries), Brand Ambassador for the Intern Group, LUX Art Auction Volunteer, Tri Delta Sorority Philanthropies