

MARK ARMSTRONG

📞 832-439-2243 📍 Dallas, TX ✉ mark789armstrong@gmail.com
🌐 markarmstrong03.com 🐙 github.com/markarm3 🌐 linkedin.com/in/markarmstrong03

EDUCATION

The University of Texas at Dallas

Richardson, TX

Bachelor of Science in Computer Science

Expected Graduation: May 2026

- Awarded the Comet Transfer Scholarship \$5,000 per year for academic excellence
- Relevant Courses: Data Structures and Algorithms, Machine Learning, Database System, Software Engineering, Operating Systems, Automata Theory, Computer Vision, Computer Networks, Discrete Mathematics, Linear Algebra

EXPERIENCE

Backend Systems Intern

January 2026 – March 2026

Voss Professional

Dallas, TX

- Reduced manual reconciliation time by 40% by designing a MySQL database and writing SQL queries to centralize product, inventory, and customer account data across multiple branches and mobile sales reps
- Eliminated 3 hours of manual data entry per day and improved reporting efficiency by 20% by engineering an automated Square POS-to-Google Sheets pipeline, enabling consistent daily tracking of accounts receivable and sales activity
- Built a system to track rep-level inventory and customer payment plans for 50+ active accounts, improving visibility into outstanding balances and increasing weekly reporting accuracy
- Collaborated with operations and sales teams to gather requirements and translate business workflows into scalable database and reporting solutions used across multiple teams

Software Engineer Intern

May 2025 – November 2025

Companions Journeying Together

Remote

- Improved application uptime by 15% and reduced system-wide runtime errors by 45% by debugging PHP (CodeIgniter 4) logic and monitoring real-time logs via Sentry
- Increased MySQL data query efficiency by 30% by optimizing database interactions for complex modules involving high-volume records of incarcerated persons and caregivers
- Accelerated deployment builds and eliminated environment-related bugs by modernizing the core stack to PHP 8.4 within Docker, saving developer time and enabling advanced language features
- Enhanced critical program metadata accuracy by 25% through SQL validation scripts, eliminating 200+ duplicate records and ensuring reliable delivery of program data
- Decreased page load times by 20% within AWS-hosted environments by refactoring full-stack components using HTML, CSS, and JavaScript to fix UI regressions

PROJECTS

BiteScout | JavaScript, HTML, CSS

August 2025 – December 2025

- Engineered a mobile-first restaurant discovery engine in JavaScript using real-time filtering for personalized results
- Built a responsive frontend with HTML and CSS to simulate native app interactivity and seamless UI state updates

LibraryIQ | PHP, SQL, JavaScript

May 2025 – October 2025

- Developed a full-stack web application using PHP with CodeIgniter (MVC framework), implementing complete CRUD functionality for managing library books
- Designed and managed a PostgreSQL relational database to securely store and organize book records, ensuring data integrity and efficient query performance
- Reduced manual data entry by 90%, saving 2.5+ hours using Google Books API to retrieve ISBN metadata for 50+ book records
- Implemented fuzzy matching, duplicate prevention, optimized database queries, and responsive UI design for scalability

Solubility Prediction System | Python, Machine Learning

December 2024

- Predicted molecular solubility of 1,144 chemical compounds to support drug discovery research by comparing Linear Regression and Random Forest models across four physicochemical properties
- Developed a machine learning pipeline in Python utilizing pandas, scikit-learn, and matplotlib to evaluate model performance and visualize comparative prediction accuracy

SKILLS

Languages: Python, C/C++, Java, PHP, SQL, JavaScript, HTML, CSS

Frameworks & Databases: React, CodeIgniter, MySQL, PostgreSQL

Developer Tools: Git, GitHub, Docker, AWS, VS Code, CLion, IntelliJ, PyCharm

Certifications: Microsoft Office Expert Certification in Excel, PowerPoint, Word, and Outlook

Supporting Areas: Chinese (Fluent), hardworking, detail-oriented, collaborative, communicative, organized