

# JESS ABDON

Walton, KY | jess.abdon@outlook.com | 859-308-8651 | jessabdon.com | github.com/JessEden123456

## PROFESSIONAL PROFILE

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Software developer with experience in Rust, Python, JavaScript, React, and SQL, specializing in local-first applications with a focus on data integrity and privacy. Background of 15 years in healthcare brings strong attention to detail, systems thinking, and a commitment to building tools that respect the people who use them.

## PROJECTS

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### Harbor — Data Integrity & Analysis Platform 2025 - Present

*Rust · Tauri · Python · SQLite · React*

- Architected a local-first desktop application separating evidence preservation from human interpretation
- Built a Python intake pipeline with SHA-256 content hashing for immutable evidence records
- Developed a React workspace enabling analysis without altering source data

### Vera — Spatial UI Framework 2025 - Present

*Rust · Tauri · React · TypeScript · SQLite*

- Designed a modular spatial layout system with separate spatial-core, editor, and motion components
- Implemented a pattern memory system that recalls user-established presets
- Built non-invasive integration that preserves existing UI structure when adopted into other apps

### Free Spirited — Homestead Management Platform 2024 - 2025

*PHP · MySQL · React · JavaScript · HTML/CSS*

- Built an integrated platform connecting herb cultivation, recipe management, and e-commerce
- Developed automated relationship detection linking herbs, recipes, and products through a knowledge graph
- Created a custom CMS with spatial room-based navigation and live editing

### Liberator — Privacy-First Data Translation Tool 2025

*React · Browser APIs · Cryptographic Verification*

- Built a browser-based tool translating opaque platform data exports into human-readable formats
- Implemented runtime hard walls blocking network and storage APIs to guarantee zero data retention
- Designed SHA-256 manifest verification before execution

## WORK EXPERIENCE

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### Medical Assistant 2008 - 2023

*St. Elizabeth Physicians (2013-2023) | Fragge Allergy & Asthma Clinic (2008-2013)*

15 years in clinical healthcare across primary care and specialty practice. Managed high-volume patient care, clinical documentation, and regulatory compliance — foundation for the systems thinking and data integrity focus in current development work.

## EDUCATION

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### Associate of Applied Science, Computer & Information Technology - Programming Track

Gateway Community and Technical College, Florence, KY | Expected Spring 2026 | GPA: 3.94

Certificates: Security+ Prep, Net+ Prep, Computer Tech Basic, A+ Prep

**Medical Assisting Certification**

Southwestern College, Florence, KY | Graduated March 2008 | GPA: 3.49

Registered Medical Assistant (RMA)

**TECHNICAL KNOWLEDGE**

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**Languages:** Rust, Python, JavaScript, TypeScript, SQL, PHP, HTML, CSS

**Frameworks & Tools:** React, Tauri, Vite, SQLite, SQLCipher, Git, VS Code

**Concepts:** Local-first architecture, Data integrity, Cryptographic verification, Spatial UI systems, Database design, SDLC

**AWARDS AND HONORS**

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Dean's List - Every Semester, Gateway Community and Technical College

Phi Theta Kappa Honor Society Member