

Will Shepherd Address: 734 Acklen Street, Shreveport, LA 71104 Email: jwshepherd172002@gmail.com Phone: (318) 347-2469 Portfolio: <https://j-w-s.github.io/j-w-s>

EDUCATION

Louisiana Tech University | Ruston, Louisiana Bachelor of Science with Honors in Computer Science Concentration in Cybersecurity September 2020 - May 2024
Cumulative GPA: 3.9/4.0 Presidential Scholarship Recipient

SKILLS

Languages & Frameworks: C, C#, CSS, HTML, Java, TypeScript, Python, Node.js, Angular, React, Next.js, .NET, FastAPI, Flask

Databases & Tools: MySQL, PostgreSQL, SQLite, Google Firestore, Microsoft Azure, Docker, Git, EF Core, IronPDF

Specializations: Full-Stack Development, Front-End Architecture, Back-End Development, Agile/Scrum, API Design, Machine Learning, Data Science, Cloud Computing, Distributed Systems

Integrations: OpenAI API, Sage Accounting, MoraWare, NMI Payment Processing

EXPERIENCE

United Tile Company | Shreveport, Louisiana Full Stack Software Engineer | June 2025 - November 2025 Next.js, React, Vite, .NET, FastAPI, Flask, Docker, EF Core, TypeScript, Python

- Architected and developed full-stack enterprise applications across multiple business domains including Estimator Add-in, Accounting, Purchasing, and Payment systems
- Re-engineered monorepo architecture with reusable components, API utilities, and automated theming system requiring zero maintenance across multiple companies and seasonal variations
- Designed and implemented end-to-end OpenAI agent integration for document processing automation, including template creation and MoraWare system integration
- Built comprehensive payment processing system with NMI integration supporting multi-payment allocation, secure CollectJs implementation, and cross-company configurability
- Developed CLI applications for MoraWare and Sage automation with full API documentation through DLL analysis and custom parsing
- Created dynamic document generation system with IronPDF integration for proposals, invoices, payment receipts, and account summaries
- Integrated Sage accounting software for automated sales order and purchase order creation from front-end applications
- Migrated analytics dashboards from Flask to FastAPI while improving architecture and maintainability
- Independently gathered requirements, provided client support, and maintained quality assurance across application suite
- Reverse-engineered undocumented codebase to generate comprehensive developer and client documentation

Louisiana Tech University | Ruston, Louisiana Software Engineer Intern | March 2024 - May 2024 Python, React, TypeScript, GPT-4, Firestore

- Developed and optimized prompts to guide OpenAI's GPT-4 model for contextually accurate responses
- Applied data mining techniques to scrape, clean, and prepare training data from business websites
- Collaborated with faculty and local company partners to meet project objectives

Cyber Innovation Center | Bossier City, Louisiana Software Engineer Intern | June 2023 - August 2023 Angular, C#, .NET, MySQL, TypeScript, Python

- Led front-end and back-end development for Air Force Global Strike Command's (AFGSC) workflow scheduler
- Developed automated scripts for generating demo data and database testing to increase team efficiency
- Participated in Scrum meetings to address roadblocks, improve prioritization, and align with business goals

PROJECTS

Mica Programming Language | Shreveport, Louisiana November 2025 C

- Designed and implemented minimal functional-first embedded programming language with register-based virtual machine
- Built complete compiler pipeline including lexer with Pratt parsing, AST construction, and bytecode emission with register allocation
- Implemented closure support with upvalue management and reference-counted memory management for arrays, strings, and heap objects
- Created iterator protocol with method chaining that compiles to fused loops for zero-overhead abstractions