David Wright

Full-Stack Software Engineer | B.S. in Computer Science (Expected May 2027) | Open to relocation

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Experience

Software Engineer Intern, BlueCross BlueShield of Tennessee — Jan 2026 — May 2026

Owned and supported claims processing workflows on the Payments team in C#, PowerShell, and SQL Server.

- Automated a monthly SQL Server claims job (~50 claims/run), saving ~2 hours of weekend processing
- Secured legacy C# batch jobs by adding authentication to workflows that previously sent unprotected emails
- Modernized legacy COBOL payment processing logic through C# and PowerShell migration.

Full-Stack Software Engineer Intern, Gemstone Trading — Aug 2025 — Present

Shipped the initial algorithmic trading web application and cloud infrastructure with the founder.

- Provisioned per-developer ephemeral AWS environments with Terraform so each developer gets isolated staging
- Authored an OAuth-authenticated MCP server on ECS so AI agents can list, follow, and rebalance trading strategies
- Migrated feature flags to PostHog and built CI drift checks with custom CD to keep flags in sync
- Set up Alembic migrations for PostgreSQL and CI/CD pipelines to deploy schema changes
- Automated 3 CI/CD pipelines (Terraform, auth server, email workflows) using GitHub Actions
- Added agent skills, AGENTS.md, and internal docs to improve AI-assisted development
- Shipped end-to-end auth by integrating Better Auth across a React frontend and Python backend
- Implemented 4 AWS Lambda email workflows (account creation, strategy following, alerts, unsubscribe) via SES

Education

East Tennessee State University (ETSU) — Jun 2024 — Expected May 2027

B.S. in Computer Science — *GPA: 3.7*

- Tutored 3 CS courses (Math for CS, Database Fundamentals, Intro to CS II) for ~100 hours total
- Dean's List for 4 semesters: Fall 2024, Spring 2025, Fall 2025, Spring 2026

Projects

Lead Developer, Spongebin (Demo) (GitHub)

- Independently designed, deployed, and maintain Spongebin, a production code pastebin serving 330+ pastes
- Designed full-stack paste creation and sharing with Next.js, PostgreSQL, and Drizzle ORM

Lead Developer, Mise (GitHub)

- Created a self-hosted recipe manager with meal planning, pantry tracking, shopping lists, and cook mode
- Stacked Bun, Hono, React, Drizzle ORM, SQLite, and Better Auth; shippable via Docker Compose as a PWA

Lead Developer, Crony (crates.io) (GitHub)

- Published a Rust CLI cron job manager with human-readable schedules (`cargo install crony-cli`)
- Designed TOML-backed task config and a long-running scheduler that can run as a systemd or launchd service

Lead Developer, Audit (crates.io) (GitHub)

- Published a Rust CLI to validate Advent of Code submissions (`cargo install audit-cli`)
- Reached 4,400+ downloads on crates.io

Contributor, Sern (Demo) (GitHub)

- Migrated documentation from Docusaurus to Astro (Starlight), improving performance and maintainability
- Refactored UI with Tailwind CSS and implemented deploy previews via Netlify to streamline development

Skills

- **Programming Languages**: TypeScript, Python, Rust, Kotlin, C#, Go
- **Frontend**: React, Next.js, Tailwind CSS
- **Backend**: Node.js, PostgreSQL, Drizzle ORM, SQL
- **Tools**: AI-assisted development, AWS Lambda, Terraform, PostHog, MCP, Better Auth, Git, Docker