Ryley Tierney

Software Engineer

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Summary

Backend software engineer with 5+ years building and modernizing production systems in healthcare and life insurance. Experience in Java services, relational databases, containerized applications, automated testing, and production troubleshooting. Reduced reporting data retrieval from weeks to days and migrated tens of thousands of lines of COBOL to Java. Builds and operates web and desktop products; experienced collaborating with remote Agile teams.

Work Experience

LIDP | Software Engineer

Mar 2024 - Present | Venice, Florida

- Modernize life insurance systems by migrating tens of thousands of lines of COBOL to Java while preserving client-specific business logic.
- Build characterization and regression tests with JUnit and Mockito to verify migrated behavior; write client-facing test notes documenting expected results.
- Work with Microsoft SQL Server, Liquibase schema migrations, and Docker-based microservices to support application modernization.
- Extend production COBOL functionality and contribute to TypeScript/Angular web applications for legacy workflows.
- Use Claude Code for legacy refactoring, code audits, and code review, alongside GitLab Duo and Google Gemini in daily development.

CPSI/TruBridge | Associate Software Engineer II

Jul 2021 - Mar 2024 | Mobile, Alabama

- Developed Java and PostgreSQL backend services for healthcare quality measures, supporting data accuracy and compliance reporting across hundreds of facilities.
- Reduced data retrieval times from weeks to days by optimizing quality-measure batch reporting pipelines.
- Diagnosed and resolved production reporting failures by tracing application logs and debugging backend processing.
- Built web applications and Perl/Python tooling to improve data processing and user workflows.

Technical Skills

- **Backend & Data:** Java, Python, SQL, COBOL, REST APIs, PostgreSQL, Microsoft SQL Server, SQLite, Liquibase
- **Web & Desktop:** TypeScript, JavaScript, three.js, Node.js, Express, React, Next.js, Angular, Electron, HTML, CSS
- **Delivery & Operations:** Docker, Git, GitLab CI, GitHub Actions, Vercel, Render, Neon, Linux, Windows
- **Testing & Quality:** JUnit, Mockito, Vitest, Supertest, regression testing, database migrations, code review, production troubleshooting
- **AI & Collaboration:** Claude Code, GitLab Duo, and Gemini for professional development; Claude and Codex for personal projects; technical documentation, remote Agile/Scrum teams

Selected Projects

Built and maintain three websites and a Windows desktop application with Claude-assisted development. Personal projects also include Python development and interactive 3D with three.js.

DFO Online Wiki | dfowiki.com

- Built and operate a Python, JavaScript, and PostgreSQL community wiki with authenticated editing, permissions, revision history, and search.
- Implemented automated content validation, encrypted database backups, and production health alerts; verified restoration of 5,164 pages with matching database records and migration checksums.

Grimoire | mtg-grimoire.tech

- Built a React/TypeScript deckbuilder and Node.js/Express API backed by PostgreSQL, with accounts, saved decks, and validation across 14 Magic: The Gathering formats.
- Implemented a recommendation pipeline combining learned card embeddings and content scoring, with regression evaluations after data refreshes.
- Automated idempotent ingestion from external card and deck datasets; added dataset freshness and API health checks, database migrations, and unit/integration tests. Deployed across Vercel, Render, and Neon.

Bub3DPrints Ledger | Windows desktop application

- Built an Electron, Next.js, TypeScript, and SQLite application to manage orders, inventory, print costing, and equipment payback for my 3D-printing business.
- Integrated Etsy, Stripe, and Shippo APIs for order reconciliation, refunds, fees, and shipping; preserve manual cost edits during sync and protect stored credentials with Windows DPAPI.

Bub3DPrints | bub3dprints.com

- Built a Next.js/TypeScript storefront with Stripe Checkout, calculated shipping, server-side checkout validation, and shared pricing logic in whole cents.
- Implemented webhook-driven order notifications with idempotency keys so payment-event retries do not send duplicate emails.

Education

B.S. in Software Engineering | University of West Florida

Pensacola, Florida | December 2020