

Tyler T. Hargreaves

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Work Experience

Unreal Mobile

Dallas, Texas

FULL STACK SOFTWARE ENGINEER

September 2025 – Present

- Developing enterprise and customer-facing applications using .NET, Blazor, and Azure cloud services.
- Building and maintaining internal staff tools and user-facing web apps supporting Patriot Mobile's MVNO operations.
- Implementing CI/CD pipelines in Azure DevOps for automated deployment, testing, and continuous delivery.
- Collaborating across departments to optimize workflows and ensure scalable, maintainable system design.

GolfStatus

Dallas, Texas

SOFTWARE DEVELOPER

December 2021 – February 2023

- Designed and maintained core modules for a golf tournament management platform using Ruby on Rails and MVC principles.
- Built dynamic participant and sponsor onboarding flows, automated event page creation, and integrated secure payment systems.
- Implemented invoicing and custom sales tax solutions (Avalara) and developed on-course payment capabilities with Stripe Terminal.
- Integrated React components for interactive, responsive web interfaces connected to Rails APIs.
- Performed DevOps responsibilities, managed software deployments, conducted code reviews, and wrote comprehensive RSpec test suites to ensure quality and maintainability.

AgencyRoot

Dallas, Texas

FULL STACK SOFTWARE DEVELOPER

December 2019 – March 2021

- Developed full stack modules for a crop insurance management platform using PHP and Angular.
- Architected secure RESTful APIs supporting document management, e-signature workflows (HelloSign), and collaboration tools.
- Redesigned authentication from session-based logins to JWT, strengthening security and modernizing system architecture.
- Engineered document automation pipelines for upload, e-signing, and status tracking to reduce processing delays.
- Built Angular dashboards using Charts.js for data visualization of coverage details and policy metrics.
- Implemented workflow checklists and two-way SMS integration (Twilio) to enhance communication.
- Optimized backend routines and database queries for multi-user and multi-location synchronization.
- Partnered with QA and support teams to troubleshoot, improve workflows, and maintain system reliability.

My CPA Dashboard

Dallas, Texas

SOFTWARE ENGINEER

June 2019 – October 2019

- Led full-stack development of a SaaS platform for accounting professionals using Python, Django, and AWS.
- Implemented secure document storage, e-signature workflows, and automated bank synchronization via Finicity.
- Developed a PHP-based relay service for secure financial data transfer between institutions.
- Managed the full project lifecycle—from requirements and design to feature rollout and stakeholder feedback.
- Deployed and scaled the platform on AWS following reliability and security best practices.

AdComp Systems

Dallas, Texas

LEAD SOFTWARE ENGINEER

October 2017 – June 2019

- Led backend development for municipal payment and automation systems using PHP and .NET frameworks.
- Developed C# middleware components enabling communication between core systems and peripheral hardware such as payment terminals, RFID readers, and LPR cameras.
- Created supporting microservices in Java, Python, and Go to improve interoperability and system performance.
- Architected large-scale deployments for public sector clients including the City of San Antonio, enabling city-wide payment and asset tracking.
- Collaborated with vendors and QA teams to ensure seamless device integration and reliable operation.
- Provided technical leadership in architecture, planning, and peer code reviews to maintain high-quality software standards.

Contract Experience

CrowdGen

Dallas, Texas

DATA SPECIALIST

September 2025 – Present

- Performed Human-in-the-Loop dataset creation for machine learning models, refining training data for contextual accuracy.
- Generated structured creative and multimedia data paired with prompt tagging for model training.
- Analyzed and validated AI performance, identifying inconsistencies and contributing to iterative data improvements.

Uptown, Oak Lawn Investment Inc.

Dallas, Texas

PROJECT MANAGER

April 2024 – Present

- Directed the pilot deployment of a point-of-sale platform across multiple DFW retail locations.
- Observed live user interactions to document UX issues and operational inefficiencies.
- Converted field insights into actionable requirements, coordinating with remote developer teams to deliver targeted improvements.

InfuseFlow

SOFTWARE DEVELOPMENT ENGINEER

Dallas, Texas

July 2023 – February 2024

- Developed core C#/ASP.NET modules for a cancer infusion management system focused on clinical workflow optimization.
- Built and enhanced features such as Nurse's Notes, advanced scheduling, and real-time patient tracking across multiple clinics.
- Extended APIs and created data pipelines to support analytics, reporting, and integration with third-party healthcare systems.
- Worked closely with clinical teams to gather requirements, refine UX, and ensure medical usability.
- Developed modern front-end components using contemporary JavaScript frameworks for intuitive user interfaces.

Nanomarket

FOUNDER

Dallas, Texas

July 2020 – Present

- Oversee software architecture, engineering management, and client delivery at a boutique software firm.
- Develop scalable, full-stack solutions using Python, Ruby, and React tailored to client business needs.
- Partnered with TorqSight Labs to build AI assistant tools automating workflows and data insights through natural language interfaces.
- Collaborated with SpeedCubeShop to design interactive educational software teaching math via Rubik's Cube concepts.
- Built a lightweight, local-first peer-to-peer commerce platform promoting direct community trade.

Patents and Additional Work

U.S. Patent 11,516,295: Using contextual information for vehicle trip loss risk assessment scoring

Richardson, Texas

INVENTOR, ISSUED TO STATE FARM MUTUAL AUTOMOBILE INSURANCE CO

Aug 2019 – Nov 2022

- Participated in Undergraduate Research at UT Dallas alongside State Farm, combining telemetry and contextual data (weather, speed limits, construction, geofencing) for smarter vehicle trip risk assessment scoring.
- Oriented the team for iOS development, set everyone up on Swift, coordinated code sharing, and drove our prototyping efforts.
- Authored a white paper capturing our data structures, algorithms, and approach to combining our results with other risk variables.
- Built and demoed a prototype, helping establish credibility to the U.S. Patent & Trademark Office.

Projection Matrix Calculator

Dallas, Texas

SOFTWARE DEVELOPER

June 2017

- Drawing inspiration from my academics, I developed a Django + Numpy web application that solves a common linear algebra matrix calculation.
- During midterms and finals season, the website drove hundreds of thousands of unique users via securing the number one rank on Google for the search term 'projection matrix calculator'. Over 150,000 users to date.

Education

The University of Texas at Dallas

Richardson, Texas

B.SC. COMPUTER SCIENCE

Graduated

- Awarded the Jonsson ECE Scholarship.
- Participated in Undergraduate Research & Development.
- Featured in student-newspaper "The Mercury".

Skills

- Full-stack engineer experienced in building scalable web apps using Ruby, Python, C#, PHP, Java, and JavaScript (React, Angular).
- Proficient with frameworks including Ruby on Rails, Django, Laravel, ASP.NET, and Symfony, following clean architecture and SOLID principles.
- Skilled in SQL (PostgreSQL, MySQL) and NoSQL (MongoDB, DynamoDB) databases, with experience integrating vector databases for semantic search and retrieval.
- Experienced in AWS and Azure cloud development, CI/CD automation, and containerization with Docker.
- Strong background in RESTful and GraphQL APIs, microservices, and asynchronous system design.
- Practical knowledge of DevOps, Git-based workflows, monitoring, and cloud deployment pipelines.
- Hands-on with prompt engineering, LoRA fine-tuning, and Human-in-the-Loop AI data labeling for model refinement.
- Adept in Agile workflows (Scrum, Kanban) using Jira, with a focus on efficient delivery and team collaboration.
- Enthusiastic about clean code, system design, and continuous improvement.
- Strong math and analytical foundation; interests include Machine Learning, automation, and Rubik's Cube solving.