

Tyler T. Hargreaves

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Experience

Nanomarket

Dallas, Texas

SOFTWARE ENGINEER

July 2020 - Present

- Oversaw a broad spectrum of responsibilities including software development, engineering project management, contract negotiations, and software sales at a custom software firm.
- Developed scalable and adaptable software using Python and Ruby, leveraging modern architectures, integrated with React front-end applications.
- Worked with TorqSight Labs to design and build innovative AI assistant tools, empowering clients to automate repetitive workflows and derive actionable insights from large data sets via natural language interfaces.
- Worked with SpeedCubeShop to create interactive software that helps students learn mathematical concepts via engaging Rubik's Cube related activities.
- Designed and developed a lightweight, local, peer-to-peer sales and commerce platform.

InfuseFlow

Dallas, Texas

SOFTWARE DEVELOPMENT ENGINEER

July 2023 - February 2024

- Developed and maintained key modules for a cancer infusion management system using C# and ASP.NET, with a focus on clinical workflow optimization.
- Implemented and enhanced core features such as the Nurse's Note for clinical documentation and complex scheduling/calendar systems supporting infusion and non-infusion appointments across multiple locations.
- Contributed to features for, template-driven workflows, and real-time patient and appointment tracking, reducing manual data entry and improving operational efficiency.
- Worked on API extensions and data pipelines to support reporting, analytics, and interoperability with third-party systems.
- Collaborated closely with clinical staff to gather requirements, refine user experience, and ensure features met real-world healthcare needs.
- Utilized modern JavaScript frameworks on the front end to deliver reliable and easy-to-use interfaces linked to the C#/ASP.NET backend.

GolfStatus

Dallas, Texas

SOFTWARE DEVELOPER

December 2021 - February 2023

- Designed, developed, and maintained core modules of an end-to-end golf tournament management platform, leveraging Ruby on Rails and MVC web technology principles to deliver scalable, maintainable solutions.
- Engineered flexible web flows, including participant and sponsor onboarding, secure payment integrations, and automatic event page creation, streamlining setup and improving the end user experience.
- Implemented in-house invoicing and custom sales tax features (using Avalara), and built on-course payment solutions through Stripe Terminal.
- Integrated React-based web interfaces ensuring smooth interaction with the Ruby on Rails API layers.
- Managed software releases, performed DevOps responsibilities, conducted peer code reviews, and wrote comprehensive RSpec tests to ensure application reliability, code quality, and maintainability.

AgencyRoot

Dallas, Texas

FULL STACK SOFTWARE DEVELOPER

December 2019 - March 2021

- Designed and developed modules for a crop insurance management platform, utilizing PHP for backend services and Angular for the user interface.
- Architected and implemented secure, scalable RESTful APIs in PHP, supporting features such as document management, e-signature workflows, collaboration tools, and comprehensive policy dashboards.
- Redesigned system authentication by transitioning from session-based logins to JWT, enhancing security and modernizing our technologies.
- Engineered digital document workflows including upload, storage, e-signature via HelloSign, and automated document status updates to reduce bottlenecks in policy processing.
- Created a policy management dashboard leveraging Angular and Charts.js to visualize policy data, coverage details, and historical insurance records, supporting informed business decisions.
- Implemented key collaboration features such as workflow checklists, and Two-Way SMS Integration using Twilio.
- Optimized database queries and backend routines to support multi-user, multi-location access and smooth mobile app synchronization.
- Worked closely with support and QA teams to rapidly troubleshoot user issues, refine workflows, and maintain high standards for reliability and user experience.

My CPA Dashboard

Dallas, Texas

SOFTWARE ENGINEER

June 2019 - October 2019

- Led full-stack development for a SaaS platform serving accounting professionals, with a primary focus on Python, Django, and AWS.
- Built and refined core application features such as secure document storage, integrated e-signature workflows, and automated client communication tools.
- Implemented a PHP-based relay service to handle secure connections with financial institutions, ensuring seamless data transfer.
- Oversaw project lifecycle management—requirements gathering, feature design, planning, and troubleshooting—to support rapid feature delivery in direct collaboration with stakeholders.
- Deployed and scaled the platform on AWS, utilizing best practices for reliability, performance, and security.

AdComp Systems

Dallas, Texas

LEAD SOFTWARE ENGINEER

October 2017 - June 2019

- Led the development of municipal payment and automation solutions by designing and maintaining robust backend services utilizing PHP and .NET frameworks.
- Developed middleware components in C# for reliable and efficient integration between the core software platform and external hardware devices, including payment terminals, RFID readers, and license plate recognition (LPR) cameras.
- Built and maintained auxiliary system services using Java, Python, and Go for specialized tasks and interoperability between disparate systems.
- Architected solutions for large-scale public sector clients such as the City of San Antonio, deploying backend and integration services to support city-wide payment collections and automated asset tracking.
- Worked closely with hardware vendors, QA, and business partners to ensure seamless device interoperability, reliability, and maintainability.
- Provided technical leadership on project planning, architecture, and code reviews, guiding teams to deliver high-quality, maintainable, and secure municipal software deployments.

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 2019

- 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 thousands of unique users via a first-page ranking on Google for the search term 'projection matrix calculator'. It's been a pet project of mine since my first year in college and I love that so many people are using it. Reached 100k+ users.

Education

The University of Texas at Dallas

Richardson, Texas

B.SC. COMPUTER SCIENCE

Graduated

Skills

- Experienced in full-stack development with Ruby, Python, C#, PHP, Java, and JavaScript (React, Angular).
- Experienced in backend frameworks: Ruby on Rails, Laravel, Django, Symfony, and ASP.NET.
- Experienced in SQL (PostgreSQL, MySQL) and NoSQL (MongoDB, DynamoDB) database design and management.
- Proficient with Git, AWS, Docker, and CI/CD pipelines for deployment and collaboration.
- Strong background in RESTful API development, MVC frameworks, and automated testing.
- Adept at Agile team collaboration and technical documentation.
- Interests include game theory, linear algebra, and Rubik's Cube solving.