

# Tyler T. Hargreaves

☎ (210)-630-9252 | ✉ tytom22@gmail.com | 🏠 tyharg.com | 📱 tyharg | 🌐 hargreavestylor

## Experience

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### StarStruck Software

Dallas, Texas

SOFTWARE ARCHITECT AND MANAGING PARTNER

July 2020 - Present

- I currently do software engineering and business management for a custom software firm founded by my grade school friends and I.
- As a Managing Partner, I help handle contract negotiations, engineering, and client relationships.
- Recent success cultivating partnerships with companies at the top of their industries.

### InfuseFlow

Dallas, Texas

SOFTWARE DEVELOPMENT ENGINEER

July 2023 - February 2024

- At InfuseFlow, we created a web platform to help facilitate health care operations.
- I wrote new features in C#/.NET, JavaScript and provided insight on business intelligence operations.

### GolfStatus

Dallas, Texas

SOFTWARE DEVELOPER

December 2021 - February 2023

- Excelled with Ruby on Rails and React to model the complexities of the game of golf and the tournaments surrounding it.
- Engineered an in-house invoicing system, sales-tax collections feature using Avalara, and an on-course payment system using Stripe Terminal.
- Additional responsibilities included managing releases, devops, code reviews and ensuring RSpec tests were being properly included.

### AgencyRoot

Dallas, Texas

FULL STACK SOFTWARE DEVELOPER

December 2019 - March 2021

- Restructured our API's authentication mechanisms away from sessions, opting for the JWT paradigm instead.
- Integrated Angular.JS components to connect with our API and create reactive web pages.
- Promptly addressed product and technical issues raised by customers when the support team escalated them to me.
- Developed features including in-app digital signatures powered by HelloSign, two-way SMS communications using Twilio's API, and a policy dashboard with PowerBI visualizations that allowed our clients to make data-driven decisions about their crop insurance policies.
- Actively participated in code review with my peers, encouraging constant code quality improvements and avoiding technical debt.

### AdComp Systems & My CPA Dashboard

Dallas, Texas

LEAD SOFTWARE ENGINEER

October 2017 - October 2019

- Working with JavaScript, C#, PHP, Python, Go, and a few other technologies, I led my team's approach to various technical challenges. As the technical lead, I helped architect and develop solutions for our larger clients such as the city of San Antonio. I was responsible for full stack web engineering as well as developing hardware compatibility layers to interface between application layers and hardware components, such as credit card terminals, currency dispensers, and LPR cameras.
- After taking lead on the My CPA Dashboard project, I moved to work there full time. As the only full-time developer on the project, I was responsible for most of the software development lifecycle – including stakeholder coordination, estimating feature requests, triaging bugs, writing unit tests, and managing deployments using AWS.

## Patents and Additional Work

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### 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 - November 2022

- I worked with State Farm to develop a new method to increase accuracy in actuarial calculations using new driving telemetry inputs. The patent pertains to adding additional context, such as speed limits, weather, and construction information (in conjunction with the vehicle's internal data) to create a more accurate representation of driving risks and performance.
- A patent for the invention was issued on November 29, 2022.

### Projection Matrix Calculator

Dallas, Texas

SOFTWARE DEVELOPER

June 2017

- Drawing inspiration from my academics, I developed a Django application that solves a common linear algebra matrix calculation.
- During midterms and finals season, the website drives 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. Recently passed 100k users.

## Education

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### The University of Texas at Dallas

Richardson, Texas

B.Sc. COMPUTER SCIENCE

Graduated

## Skills

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- Expert in Model-View-Controller frameworks such as Rails, Django, ASP, and Laravel.
- Extensive programming experience in Ruby, JavaScript, Python, PHP, C#, Swift, and Java.
- Experienced with HTML, CSS, React, Angular and the modern JavaScript ecosystem.
- Routine use of industry-standard technologies, such as Amazon Web Services, Git, SSH, and FTP.
- Strong understanding of data entity models in Relational or Document-oriented formats.
- Interest and experience in Invention, AI Research, Linear Algebra, Game Theory, and Rubik's Cubing.