

# Tyler T. Hargreaves

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

## Education

### The University of Texas at Dallas

B.Sc. COMPUTER SCIENCE

Richardson, Texas

Graduated

## Experience

### InfuseFlow

SOFTWARE DEVELOPMENT ENGINEER

Dallas, Texas

July 2023 - Present

- My current role is at InfuseFlow, creating a web platform to help facilitate health care operations. I write new features in C#/.NET and provide insight on business intelligence operations.

### GolfStatus

SOFTWARE DEVELOPER

Dallas, Texas

December 2021 - February 2023

- Worked 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

FULL STACK SOFTWARE DEVELOPER

Dallas, Texas

December 2019 - March 2021

- Restructured our API's authentication mechanisms away from sessions, opting for the JWT paradigm instead.
- 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.

### My CPA Dashboard

SOFTWARE ENGINEER

Dallas, Texas

February 2019 - October 2019

- 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.
- Using Django features and API services, I made additions such as bank account synchronization using Finacity, payment processing with Stripe, and U.S + U.K. compliant digital signatures. After nine months, I completed the release of a successful SaaS product.

### AdComp Systems, Inc.

LEAD SOFTWARE ENGINEER

Lewisville, Texas

October 2017 - February 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.

### Condecca

SOFTWARE ENGINEER

Austin, Texas

August 2016 - August 2017

- During my first year in college, I worked in software development and company growth strategy in an early-stage education-technology start-up. I developed features within the Django ecosystem, and helped launch an MVP.
- The company was featured in Built in Austin, The Daily Texan, The Mercury, and even tweeted about by the actor Rainn Wilson.

## Patents and Additional Work

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

INVENTOR, ISSUED TO STATE FARM MUTUAL AUTOMOBILE INSURANCE CO.

Richardson, Texas

Aug 2019 - November 2022

- For my design project at UT Dallas, 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.
- The project received the number one rank in the semester's Capstone Expo and a patent for the invention was issued on November 29, 2022.

### Projection Matrix Calculator

SOFTWARE DEVELOPER

Dallas, Texas

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.

## Skills

- 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.js 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.