

Tyler T. Hargreaves

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Experience

Uptown, Oak Lawn Investment Inc.

Dallas, Texas

SALES ASSOCIATE

April 2024 - Present

- Developed and maintained effective relationships with retail and wholesale clients, enhancing product distribution channels and driving increased sales across diverse market segments.
- Analyzed customer behavior to provide personalized shopping experiences, maximizing sales and enhancing customer satisfaction.
- Managed and upgraded sales systems, created novel software tools for innovative sales, and contributed to marketing strategies through data-driven insights.

StarStruck Software

Dallas, Texas

SOFTWARE ARCHITECT AND MANAGING PARTNER

July 2020 - Present

- Overseeing software engineering, contract negotiations, client relationships, and business management at a custom software firm.
- Developed scalable system frameworks using Python and Ruby, integrating them with our front-end applications created in React.
- Achieved success in cultivating sales and partnerships with industry-leading companies.

InfuseFlow

Dallas, Texas

SOFTWARE DEVELOPMENT ENGINEER

July 2023 - February 2024

- Developed a web platform for healthcare operations and implemented new features using C#/.NET, JavaScript, and AI technologies for data analysis.
- Engineered and implemented instances with custom features for larger clients.

GolfStatus

Dallas, Texas

SOFTWARE DEVELOPER

December 2021 - February 2023

- Specialized in Ruby on Rails and Power BI for backend development, alongside React for front end; modeling the complexities of golf games and tournaments.
- Engineered an in-house invoicing system, a sales-tax feature using Avalara, and an on-course payment system using Stripe Terminal in Ruby.
- Managed releases, DevOps tasks, performed code reviews, and ensured thorough RSpec tests were implemented.

AgencyRoot

Dallas, Texas

FULL STACK SOFTWARE DEVELOPER

December 2019 - March 2021

- Transitioned API authentication from session-based to a JWT paradigm, solving an architectural problem that had persisted since the company's inception.
- Swiftly resolved critical product and technical issues escalated by the support team, ensuring a seamless customer experience.
- Engineered key application features including:
 - In-app digital signature integration utilizing HelloSign.
 - Two-way SMS communication via Twilio's API.
 - A policy dashboard featuring interactive visualizations with Charts.js, enabling clients to make data-driven decisions on crop insurance policies.
- Drove continuous improvement in code quality through active participation in peer code reviews, minimizing technical debt.

AdComp Systems & My CPA Dashboard

Dallas, Texas

LEAD SOFTWARE ENGINEER

October 2017 - October 2019

- Led technical projects using Java alongside Python, Go, and C#. Developed middleware for interoperability between our software layer and hardware devices such as payment terminals, RFID, and LPR cameras. Engineered solutions for larger clients such as the City of San Antonio.
- Transitioned to My CPA Dashboard, taking on full-time development responsibilities using Python + Django, managing the entire software development life cycle including stakeholder coordination, feature estimation, bug triaging, unit tests, and AWS 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 - 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, construction information, and geofencing; in conjunction with the vehicle's internal data.
- The new system allowed State Farm to calculate a more accurate representation of driving risks and performance for particular driver. 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 + Numpy web 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

The University of Texas at Dallas

Richardson, Texas

B.SC. COMPUTER SCIENCE

Graduated

Skills

- Extensive experience in software sales, developing numerous client relationships and providing consulting on purchases.
- Extensive programming experience utilizing languages such as Ruby, Python, and C#, among others.
- Proficient in developing data entity models using Excel, SQL, as well as document and document-oriented (NoSQL) databases.
- Routine use of industry-standard technologies such as Amazon Web Services, Git, SSH, and FTP.
- Interest and experience in invention, actuarial science, AI research, linear algebra, game theory, and Rubik's cubing.