

Ryan Garlick, PhD



Professional Summary

Dr. Ryan Garlick is a Clinical Professor of Computer Science and Engineering at the University of North Texas with over 22 years of combined academic and industry experience. He has secured competitive grants in computer science pedagogy, published research in e-commerce and meta-heuristics, and teaches upper-division courses including Internet Programming, Secure e-Commerce, AI, Database Systems, Human-Computer Interfaces, Computer Networking, and IT Project Management.

Beyond academia, Dr. Garlick owned an e-commerce business for 20 years and has led the design and implementation of software solutions spanning mobile applications, location and sensor data, system and API integrations, user interfaces, and e-commerce platforms. His expertise extends to patents in networking, mobile, storage, UI, payment systems, and e-commerce, as well as contract disputes involving software development and allegations of trade secret misappropriation. He has served as a court-qualified expert, delivering technology tutorials, authoring expert reports, conducting code reviews, and providing deposition and trial testimony. He has also been featured as a principal in National Geographic and History Channel documentaries for his work in the field.

Areas of Expertise

Software Development, Web and Mobile App Development, Computer Networking, e-Commerce, Payment Gateways, Shopping Cart Software, Real Estate and Financial Software, Mobile Location and Sensor Data, Order Processing Automation, Miva Merchant, WooCommerce (WordPress), Amazon Seller Fulfillment, PayPal and Shipping Integration, PHP, Java Programming, APIs.

Education

PhD in Computer Science

SOUTHERN METHODIST UNIVERSITY

May 2003

Dallas, TX

Master of Science in Computer Science

TEXAS STATE UNIVERSITY

December 1998

San Marcos, TX

BBA in Finance with Honors

THE UNIVERSITY OF TEXAS AT AUSTIN

August 1995

Austin, TX

Professional Experience

Clinical Professor

January 2024 - present

- Chaired Undergraduate Computer Science Curriculum Committee

University of North Texas

Denton, TX

Clinical Associate Professor

November 2021 – January 2024

- Chaired Clinical Faculty Search Committee and Scholarship Committee

University of North Texas

Denton, TX

Principal Lecturer

September 2009 – November 2021

- Created Android Development Course with Industry Collaboration
- Murphy Center for Entrepreneurship Faculty Fellow

University of North Texas

Denton, TX

Visiting Assistant Professor

August 2003 – August 2009

- Created Courses in Mobile Development and Secure e-Commerce
- Developed Innovative Gamified Programming Coursework

University of North Texas

Denton, TX

Managing Member / Owner

March 2000 – August 2022 (business sold)

- Directed all e-Commerce Activities from Order Acquisition to Fulfillment and Accounting
- Integrated Systems and APIs for US Based Production and Shipping Facility
- Created Software Platform for Automated Licensing and Royalty Reporting from Sales Data

Wordyisms LLC

Dallas, TX

Founder

January 2010 – present

- Created PHP and JavaScript e-Commerce Site for Designing and Selling Frames for Televisions
- Developed Online Custom Product Designer and Branded Affiliate Program
- Manage Web Development, Security, and Marketing

SourceTVFrames.com

Dallas, TX and Austin, TX

Qualifications

ACADEMIC	Professional Member of the Association for Computing Machinery (ACM). ACM Programming Team co-Coach at the International Collegiate Programming Competition World Finals in Harbin, China. Proficient Author and Public Speaker
INDUSTRY	Led Security, Development and Strategy for e-Commerce and Real Estate Sites. Built “SourceTVFrames” e-Commerce Startup to Multi-State Distribution
LEGAL	IP Litigation Consultant and Expert Witness with Experience Giving Testimony by Deposition and at Trial, Performing Numerous Source Code Reviews and Extensive Report Preparation
DEVELOPMENT	Developed “Mobile World Records” Location Based Cloud Storage Android App (>5,000 Downloads). Convergence Technology Center Mobile Development Workshop Leader
TECHNOLOGIES	Full Stack e-Commerce Expertise including Shopping Cart Development, Payment Gateways, e-Commerce Security, User Interface, Integration with Manufacturing, Shipping Platforms, ShipStation, Zapier, Amazon Integration, Bitcoin Payment, Miva Merchant, WooCommerce (WordPress), Web and Mobile Development, Android Development. Proficiency in Real Estate and Financial Software, Java, PHP, and JavaScript
REAL ESTATE	Texas Real Estate License # 428910. Developed and Marketed “QuickNet” Financial Software for Estimating Real Estate Closing Costs. Proficiency in Real Estate Finance and Investment

Litigation Support and Expert Witness Experience

BRUSTER PLLC / SOREY & HOOVER, LLP MATTER: PATENT INFRINGEMENT, E-COMMERCE RELATED WEB CONTROLS AND UI
Andra Group LP, v. Kendra Scott, LLC et al. *TX Eastern District 5:24-CV-00131-RWS*
EXPERT REPORT, CLAIM CONSTRUCTION DECLARATION, DEPOSITION 2024-

AZA LAW MATTER: PATENT INFRINGEMENT, SECURE MERCHANT PAYMENT
Autoscribe Corp v. Nuvei Corp, et al *TX Eastern District, 2:24-cv-0325-JRG*
SOURCE CODE REVIEW 2025-

FOLIO LAW GROUP PLLC MATTER: PATENT INFRINGEMENT, COMPUTER TELEPHONY INTEGRATION
WSOU Investments, LLC v. Salesforce.com, Inc. *TX Western District, 6:20-CV-1171-ADA*
SOURCE CODE REVIEW 2024-

FOLIO LAW GROUP PLLC MATTER: PATENT INFRINGEMENT, LOCATION BASED USER INTERFACE
WSOU Investments, LLC v. Salesforce.com, Inc. *TX Western District, 6:20-CV-1172-ADA*
SOURCE CODE REVIEW 2024-

CONCEPT LAW GROUP, PA MATTER: PATENT INFRINGEMENT, ARRIVAL NOTIFICATION SYSTEM
Discovery Schools, Inc. v. Radio ID Equipment, Inc. *KY Eastern District, 3:23-cv-33-GFVT-EBA*
SOURCE CODE DECLARATION 2024-

NELSON BUMGARDNER CONROY PC MATTER: PATENT INFRINGEMENT, COMMON POINT AUTHORING SYSTEM
Pardalis v. IBM Corporation *TX Eastern District, 2:22-cv-00452-JRG-RSP*
CLAIM CONSTRUCTION DECLARATION, DEPOSITION, REBUTTAL REPORT REGARDING VALIDITY, REPORT 2023-2024
DEPOSITION, TRIAL

KASOWITZ BENSON TORRES LLP MATTER: PATENT INFRINGEMENT, VECTORIZED IMAGE FORMATTING
WSOU Investments, LLC v. Salesforce.com, Inc. *TX Western District, 6:20-CV-1164-ADA*
OPENING EXPERT REPORT REGARDING INFRINGEMENT, CODE REVIEW, REBUTTAL REPORT REGARDING VALIDITY, 2022-2024
SUPPLEMENTAL REPORTS, DEPOSITION

QUARLES & BRADY LLP MATTER: PATENT INFRINGEMENT, MEDICAL DEVICE SENSORS
Zimmer, Inc. et al v. Exactech Inc. *FL Middle District, 8:21-cv-00995*
PATENT INFRINGEMENT CONSULTING 2022-2023

QUARLES & BRADY LLP MATTER: TRADE SECRET, MEDICAL DEVICE SENSORS AND SOFTWARE
XpandOrtho, Inc. et al v. Zimmer Biomet Holdings, Inc. et al *CA Southern District, 3:21-cv-00105*
CODE REVIEW CONSULTING 2022-2023

SHEPPARD MULLIN MATTER: PATENT INFRINGEMENT, TABLET COMPUTER DISPLAY MODE AND INTERFACE
LiTL LLC v. Lenovo, Inc and Lenovo Beijing Ltd. *Delaware District, 1:20-cv-00689-RGA*
CLAIM CONSTRUCTION CONSULTING 2022

RIMON, PC MATTER: PATENT INFRINGEMENT, AUTOMATIC IMAGE UPLOAD
Cutting Edge Vision, LLC v. TCL Technology Group Corp. et al *TX Western District, 6:22-cv-285*
CLAIM CONSTRUCTION DECLARATION, DEPOSITION 2022-2023

SHERIDAN ROSS PC <u>Digital Retail Apps, Inc</u> v. Sam's Club West, Inc. REBUTTAL EXPERT REPORT ON VALIDITY	MATTER: PATENT INFRINGEMENT, RETAIL SELF-PAYMENT FROM MOBILE APP <i>TX Eastern District, 2:21-cv-00184-JRG-RSP</i> 2021-2022
CALFEE, HALTER & GRISWOLD LLP <u>BoxCast, Inc</u> v. Resi Media LLC, et al CODE REVIEW, INTERNAL REPORTS	MATTER: PATENT INFRINGEMENT, NETWORKED STREAMING MEDIA <i>TX Eastern District, 2:21-cv-00217-JRG</i> 2021-2022
KILPATRICK TOWNSEND & STOCKTON LLP Jason Williams v. <u>AT&T Mobility, LLC</u> EXPERT REPORT	MATTER: CIVIL COMPLAINT, BITCOIN MINING AND DIGITAL WALLETS <i>NC Eastern District, 4:19-cv-00153</i> 2021-2022
SHERIDAN ROSS PC <u>Smarter Agent, LLC</u> v. Real Estate Webmasters, et al DECLARATIONS IN SUPPORT OF PATENT OWNER	MATTER: PATENT INFRINGEMENT, LOCATION BASED REAL ESTATE SEARCH <i>TX Western District, 6:19-cv-00182-ADA</i> 2021-2022
SHERIDAN ROSS PC <u>K. Mizra LLC</u> v. General Motors LLC INFRINGEMENT AND INVALIDITY CONSULTING, INTERNAL REPORTS	MATTER: PATENT INFRINGEMENT, CELLULAR VEHICLE TELEMATICS <i>TX. Eastern District 2:21-cv-00244</i> 2020-2022
GARTEISER HONEA <u>Cellspin Soft, Inc</u> v. Fitbit, Inc, et al 101 REBUTTAL EXPERT REPORT, INFRINGEMENT EXPERT REPORTS, DEPOSITION, 7 CODE REVIEWS	MATTER: PATENT INFRINGEMENT, TRANSFER OF SENSOR DATA VIA BLUETOOTH INTERFACE <i>CA Northern District, 4:17-cv-05928</i> 2020-2021
SHERIDAN ROSS PC <u>Digital Retail Apps, Inc</u> v. H-E-B Grocery Company, LP IPR DECLARATION TO SUPPORT PATENT OWNER RESPONSE, SUPPLEMENTAL DECLARATIONS, EXPERT REPORT REGARDING VALIDITY, IPR DEPOSITION, EXPERT REPORT DEPOSITION	MATTER: INTER PARTES REVIEW, PATENT INFRINGEMENT, MOBILE RETAIL SELF-PAYMENT <i>IPR 2020-00149 & 6:19-cv-00167</i> 2020-2021
SHERIDAN ROSS PC <u>Infogation Corp.</u> v. Google LLC CODE REVIEW, INFRINGEMENT EXPERT REPORT, REBUTTAL REPORT REGARDING PATENT VALIDITY	MATTER: PATENT INFRINGEMENT, GPS BASED MOBILE NAVIGATION SYSTEM <i>TX Western District 6:20-cv-0366</i> 2020-2022
CREEDON PLLC Tactical Entertainment, LLC v. <u>Krasamo, Inc</u> CODE REVIEW, EXPERT REPORT, SUPPLEMENTAL EXPERT REPORT, DEPOSITION	MATTER: SOFTWARE DEVELOPMENT, BACK-END SERVICES, APIS AND NETWORKING <i>TX 401st District, 401-03246-2017</i> 2019-2021
GRIFFITH BARBEE, PLLC <u>Andra Group, LP</u> v. Victoria's Secret Stores, LLC et al EXPERT REPORT REGARDING 101 VALIDITY	MATTER: PATENT INFRINGEMENT, E-COMMERCE RELATED WEB CONTROLS AND UI <i>TX Eastern District, 4:19-cv-00288</i> 2019-2021
PAULE, CAMAZINE & BLUMENTHAL, PC Tribus, LLC v. <u>North America Real Estate Investment Group, Inc</u> CONSULTING ON FULFILLMENT OF WEBSITE SOFTWARE DEVELOPMENT CONTRACT	MATTER: REAL ESTATE SOFTWARE DEVELOPMENT CONTRACT <i>AAA Case#: 01-18-0003-2859</i> 2019
RUTAN & TUCKER, LLP Extreme Reach, Inc. v. <u>Priority Workforce, Inc., et al</u> EXPERT REPORT REGARDING INDEPENDENT CODE DEVELOPMENT	MATTER: ACCOUNTING SOFTWARE TRADE SECRETS <i>CA Central District, 2:17-cv-06796</i> 2018

Gonzalez v. New Life Ventures, Inc *TX Eastern District, 2:14-cv-00907*
CLAIM CONSTRUCTION, SOURCE CODE REVIEW, DECLARATION, INFRINGEMENT EXPERT REPORT, DEPOSITION, 2016
TRIAL TESTIMONY

Gonzalez v. Tagged, Inc *TX Eastern District, 2:14-cv-0993*
CLAIM CONSTRUCTION, SOURCE CODE REVIEW, DECLARATION, INFRINGEMENT EXPERT REPORT, DEPOSITION 2016

Gonzalez v. InfoStream Group Inc *TX Eastern District, 2:14-cv-00906*
DECLARATION, INFRINGEMENT CONSULTING 2016

Gonzalez v. Social Concepts, Inc *CA Northern District, 4:15-cv-01719*
CLAIM CONSTRUCTION, SOURCE CODE REVIEW 2015

Gonzalez v. Autotrader.com, Inc *GA Northern District, 1:15-cv-01157*
CLAIM CONSTRUCTION, SOURCE CODE REVIEW 2015

Gonzalez v. Snap Interactive, Inc *TX Eastern District, 2:14-cv-00992*
DECLARATION, INFRINGEMENT CONSULTING 2014

Gonzalez v. Global Personals, LLC *TX Eastern District, 2:14-cv-00952*
DECLARATION, INFRINGEMENT CONSULTING 2014

Gonzalez v. Zulily, Inc *TX Eastern District, 2:14-cv-00630*
INFRINGEMENT CONSULTING 2014

Gonzalez v. Black Devine *TX Eastern District, 2:14-cv-00160*
INFRINGEMENT CONSULTING 2014

Gonzalez v. Elite Marketing Solutions, Inc *TX Eastern District, 2:14-cv-00963*
DECLARATION, INFRINGEMENT CONSULTING 2014

Courses Taught

UNDERGRADUATE (CSCE COURSES)

- 1015 **Computing Tools and Techniques Laboratory** : Integrated Development Environments, Command Line, Basic Algorithms, Cloud, Debugging and Testing Code
- 1030 **Computer Science I** : C / C++, Java
- 1040 **Computer Science II** : C / C++, Java
- 3055 **IT Project Management** : Microsoft Project, Agile, Git, Basecamp, Project Finance, Google Analytics
- 3201 **Applied Artificial Intelligence**: AI Models, Basic Machine Learning Techniques, LLMs, Fine Tuning, Modalities
- 3210 **Symbolic Processing** : Project Course Attempting to Decode the Zodiac-340 Cipher
- 3214 **Software Development for AI** : Python, Reinforcement Learning, AWS DeepRacer
- 3220 **Human Computer Interfaces** : UI / UX, Adobe XD, Web Accessibility, iOS UI and Android UI Kits
- 3410 **Advanced Programming** : Android Development, Location Services, Device Sensors, Cloud Storage
- 3420 **Internet Programming** : PHP, JavaScript, Node.js, HTML / CSS , Client / Server, REST APIs, AWS
- 3530 **Introduction to Computer Networks** : Ethernet, TCP / IP, Application Layer
- 4310 **Introduction to Artificial Intelligence** : Genetic Algorithms, Neural Networks, Heuristics
- 4350 **Database Systems** : SQL, MySQL, NoSQL, Amazon Web Services DynamoDB
- 4380 **Data Mining** : Clustering, Classification, Association Analysis, Stylometry
- 4410 **Software Development I & II** : Year-Long Capstone Project Courses
- 4560 **Secure Electronic Commerce** : Public Key Infrastructure (PKI), Shopping Cart Development, Payment Gateways, eCommerce Security, SSL, TLS, Authentication and Authorization, Blockchain
- 4890 **Directed Studies** : One-on-one or Small Cohort Classes on Mobile and App Development
- 4901 **Software Development Capstone** : Topics Course for Small Groups
- 4905 **IT Capstone I**: Topics Course – Cryptocurrency Mining
- 4925 **IT Capstone II**: Topics Course – Cryptocurrency Mining

GRADUATE (CSCE COURSES)

- 5210 **Artificial Intelligence** : Genetic Algorithms, Meta-Heuristics
- 5214 **Software Development for A.I.** : Python, Reinforcement Learning, AWS DeepRacer
- 5380 **Data Mining** : Clustering, Classification, Association Analysis, Stylometry
- 5560 **Secure Electronic Commerce** : Project-Based Course Creating a Real-World e-Commerce Site

Television and Media

Dr. Garlick's Solution to the Z13 Cipher

PRESENTER

Let's Crack Zodiac

2025

Let's Crack Zodiac: Bomb Code Defused?

PRESENTER

Let's Crack Zodiac

2025

The Hunt for The Zodiac Killer

CODE TEAM MEMBER ON 5-PART SERIES INVESTIGATING ZODIAC CRIMES

History Channel / Karga 7 Pictures

2017

It Was Him

ZODIAC CIPHER INTERVIEWEE AND CONSULTANT

Spike TV / Objective Media Group

2017

The Code Breakers

PRINCIPAL – HOUR LONG PROGRAM ON CODES AND CIPHERS

National Geographic Channel

2009

Zodiac Ciphers and Codebreaking

NUMEROUS RADIO, PODCAST, AND PRINT INTERVIEWS

Various

2009-present

Grants Awarded

Development of Computer Science Curricula

\$13,000

National Convergence Technology Center

2019, 2020

UNT STARS Student Development

\$14,000

NSF STARS Computing Corps Grant

2012

Social Entrepreneurship in an iPhone Development Course

\$3,000

Texas Transformative Instruction Initiative Grant

2010

Using ALICE as a Bridge to Java in CS1

\$9,637

UNT Transformative Instruction Initiative Grant

2008

Selected Presentations

A Potential Solution to the Zodiac Killer's "My Name Is_" Cipher

INVITED SPEAKER

American Cryptogram Association

Annual Convention 2025

Cracking the Codes of the Zodiac Serial Killer

INVITED SPEAKER, INVITED KEYNOTE SPEAKER

Osher Lifetime Learning Institute

Denton, Texas 2022, 2019, 2018

Entrepreneurial Learning in a Secure e-Commerce Course through Creating Competitive Real-World Sites

PRESENTER

EEE 2014 E-Commerce Conference

Hong Kong 2014

Teaching Secure e-Commerce through Competitive Real-World Sites

INVITED SPEAKER

SoMiC Computer Security Conference

Denton, Texas 2013

Motivating and Retaining CS2 Students with a Competitive Game Programming Project

PRESENTER

ICEE Engineering Education Conference

Mayagüez, Puerto Rico 2006

Strategies for Retention and Recruitment of Women and Minorities in Computer Science and Engineering

PRESENTER

ICEE Engineering Education Conference

Mayagüez, Puerto Rico 2006

Dynamic Wavelength Routing in WDM Networks via Ant Colony Optimization

PRESENTER

ACO 2002 Algorithm Conference Brussels,

Belgium 2002

Publications

**Entrepreneurial Learning in a Secure e-Commerce Course through
Creating Competitive Real-World Sites**

GARLICK, R.

Proceedings of IEEE
2014

Using ALICE in CS1 - a Quantitative Experiment

GARLICK, R. & CELIKEL, E.

ITiCSE Innovation in CS Education
2010

**Motivating and Retaining CS2 Students with a Competitive Game
Programming Project**

GARLICK, R. & AKL, R.

iNEER Special Volume: Innovations
2007

**Strategies for Retention and Recruitment of Women and Minorities
in Computer Science and Engineering**

AKL, R., KEATHLY, D. & GARLICK, R.

iNEER Special Volume: Innovations
2007

Intra-Class Competitive Assignments in CS2: A One-Year Study

GARLICK, R. & AKL, R.

Proceedings of IEEE
2006

**Dynamic Wavelength Routing in WDM Networks via Ant Colony
Optimization**

GARLICK, R. & BARR, R.

Ant Algorithms
2002

Variable Hidden Layer Sizing in Elman Recurrent Neuro-Evolution

GARLICK, R. & KAIKHAH, K.

Journal of Applied Intelligence
2000