

Ryan Garlick, PhD



Professional Summary

Dr. Garlick has over 20 years of industry and academic experience. He is currently a Clinical Associate Professor in the Department of Computer Science and Engineering at the University of North Texas. Dr. Garlick has been awarded grants for computer science pedagogy and has published in the fields of e-commerce and meta-heuristics. He regularly teaches upper-division courses including Internet Programming, Secure e-Commerce, Database Systems, Human-Computer Interfaces, Computer Networking, and IT Project Management. He has been featured as a principal in National Geographic and History Channel documentaries for his work in the field.

Dr. Garlick has designed and implemented numerous software development projects including mobile apps incorporating location and sensor data, systems and API integrations, user interfaces, and shopping cart platforms with online and mobile payment through his academic work and as the owner of an e-commerce company.

Dr. Garlick has extensive experience with patents in the networking, mobile, UI and e-commerce fields. Over the past nine years, he has provided technical expertise regarding the validity and infringement of patents and the fulfillment of software development contracts. He has been qualified as an expert by the Court, provided technology tutorials, authored numerous expert reports, performed multiple code reviews, and given testimony by deposition and at trial.

Areas of Expertise

Software Development, Web and Mobile App Development, 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 Associate Professor

November 2021 - present

- 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
- Created Asynchronous Online Curricula for Multiple Courses

University of North Texas

Denton, TX

Visiting Assistant Professor

August 2003 – August 2009

- Created Courses in Mobile Development and Secure e-Commerce
- Taught C++, Java, and Artificial Intelligence (AI)
- 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

KASOWITZ BENSON TORRES LLP

WSOU Investments, LLC v. Salesforce.com, Inc.

OPENING EXPERT REPORT REGARDING INFRINGEMENT, REBUTTAL REPORT REGARDING VALIDITY

MATTER: PATENT INFRINGEMENT, VECTORIZED IMAGE FORMATTING

TX Western District, 6:20-CV-1164-ADA

2022-

QUARLES & BRADY LLP

Zimmer, Inc. et al v. Exactech Inc.

PATENT INFRINGEMENT CONSULTING

MATTER: PATENT INFRINGEMENT, MEDICAL DEVICE SENSORS

FL Middle District, 8:21-cv-00995

2022-2023

QUARLES & BRADY LLP

XpandOrtho, Inc. et al v. Zimmer Biomet Holdings, Inc. et al

CODE REVIEW CONSULTING

MATTER: TRADE SECRET, MEDICAL DEVICE SENSORS AND SOFTWARE

CA Southern District, 3:21-cv-00105

2022-2023

SHEPPARD MULLIN

LiTL LLC v. Lenovo, Inc and Lenovo Beijing Ltd.

CLAIM CONSTRUCTION CONSULTING

MATTER: PATENT INFRINGEMENT, TABLET COMPUTER DISPLAY MODE AND INTERFACE

Delaware District, 1:20-cv-00689-RGA

2022

RIMON, PC

Cutting Edge Vision, LLC v. TCL Technology Group Corp. et al

CLAIM CONSTRUCTION DECLARATION, DEPOSITION

MATTER: PATENT INFRINGEMENT, AUTOMATIC IMAGE UPLOAD

TX Western District, 6:22-cv-285

2022-

SHERIDAN ROSS PC

Digital Retail Apps, Inc v. Sam's Club West, Inc.

REBUTTAL EXPERT REPORT ON VALIDITY

MATTER: PATENT INFRINGEMENT, RETAIL SELF-PAYMENT FROM MOBILE APP

TX Eastern District, 2:21-cv-00184-JRG-RSP

2021-2022

CALFEE, HALTER & GRISWOLD LLP

BoxCast, Inc v. Resi Media LLC, et al

CODE REVIEW, INTERNAL REPORTS

MATTER: PATENT INFRINGEMENT, NETWORKED STREAMING MEDIA

TX Eastern District, 2:21-cv-00217-JRG

2021-2022

KILPATRICK TOWNSEND & STOCKTON LLP

Jason Williams v. AT&T Mobility, LLC

EXPERT REPORT

MATTER: CIVIL COMPLAINT, BITCOIN MINING AND DIGITAL WALLETS

NC Eastern District, 4:19-cv-00153

2021-2022

SHERIDAN ROSS PC

Smarter Agent, LLC v. Real Estate Webmasters, et al

DECLARATIONS IN SUPPORT OF PATENT OWNER

MATTER: PATENT INFRINGEMENT, LOCATION BASED REAL ESTATE SEARCH

TX Western District, 6:19-cv-00182-ADA

2021-2022

SHERIDAN ROSS PC

K. Mizra LLC v. General Motors LLC

INFRINGEMENT AND INVALIDITY CONSULTING, INTERNAL REPORTS

MATTER: PATENT INFRINGEMENT, CELLULAR VEHICLE TELEMATICS

TX. Eastern District 2:21-cv-00244

2020-2022

GARTEISER HONEA

Cellspin Soft, Inc 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

CA Northern District, 4:17-cv-05928

2020-2021

SHERIDAN ROSS PC

Digital Retail Apps, Inc v. H-E-B Grocery Company, LP

IPR DECLARATIONS TO SUPPORT PATENT OWNER RESPONSE, SUPPLEMENTAL DECLARATIONS, EXPERT REPORT, IPR DEPOSITION, EXPERT REPORT DEPOSITION

MATTER: INTER PARTES REVIEW, PATENT INFRINGEMENT, MOBILE RETAIL SELF-PAYMENT

IPR 2020-00149 & 6:19-cv-00167

2020-2021

SHERIDAN ROSS PC

Infogation Corp. v. Google LLC

MATTER: PATENT INFRINGEMENT, GPS BASED MOBILE NAVIGATION SYSTEM

TX Western District 6:20-cv-0366

CREEDON PLLC

MATTER: SOFTWARE DEVELOPMENT, BACK-END SERVICES, APIS AND NETWORKING

Tactical Entertainment, LLC v. Krasamo, Inc

TX 401st District, 401-03246-2017

CODE REVIEW, EXPERT REPORT, SUPPLEMENTAL EXPERT REPORT, DEPOSITION

2019-2021

GRIFFITH BARBEE, PLLC

MATTER: PATENT INFRINGEMENT, E-COMMERCE RELATED WEB CONTROLS AND UI

Andra Group, LP v. Victoria's Secret Stores, LLC et al

TX Eastern District, 4:19-cv-00288

INFRINGEMENT EXPERT REPORT

2019-2021

PAULE, CAMAZINE & BLUMENTHAL, PC

MATTER: REAL ESTATE SOFTWARE DEVELOPMENT CONTRACT

Tribus, LLC v. North America Real Estate Investment Group, Inc

AAA Case#: 01-18-0003-2859

CONSULTING ON FULFILLMENT OF WEBSITE SOFTWARE DEVELOPMENT CONTRACT

2019

RUTAN & TUCKER, LLP

MATTER: ACCOUNTING SOFTWARE TRADE SECRETS

Extreme Reach, Inc. v. Priority Workforce, Inc., et al

CA Central District, 2:17-cv-06796

EXPERT REPORT REGARDING INDEPENDENT CODE DEVELOPMENT

2018

LOCKE LORD, LLP

MATTER: PATENT INFRINGEMENT, WEB-BASED FACETED SEARCH TECHNOLOGIES

Gonzalez v. New Life Ventures, Inc

TX Eastern District, 2:14-cv-00907

CLAIM CONSTRUCTION, SOURCE CODE REVIEW, DECLARATION, INFRINGEMENT EXPERT REPORT, DEPOSITION, TRIAL TESTIMONY

2016

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)

- 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
- 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** : 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

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

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