

Josh Mathew

Software Consultant

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Quandary Peak Research

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My background spans software engineering, mechanical engineering, robotics, computer science and data science. These diverse skills are a strong asset in my technical consulting role. I excel in explaining complex computer concepts to ordinary people, and I understand that customer service is essential to helping clients understand technology.

As a software consultant at Quandary Peak Research, I provide a range of services including source-code analysis for patent cases, copyright infringement, and breach-of-contract matters.

Education

General Assembly

Software Engineering Immersive Bootcamp | May 2023–Aug 2023

B.S. in Mechanical Engineering, Minor in Computer Science | 3.6 GPA

The University of Texas at Austin | 2020

Certified Data Science Practitioner

Data Science Master Class | Jan 2020–June 2020

Areas of Expertise

- **Languages**

Python 3.7, TypeScript, JavaScript, HTML5, CSS3, Java, SQL, PHP

- **Technologies**

React, MERN Stack, Data Science, Data Analytics, OpenAI, Pandas, APIs, Styled-Components, Socket.io, Trello, Canvas, Django, MongoDB, Express, Node.js, Mongoose, Git, GitHub, Figma, Microsoft Office(Word, Excel, PowerPoint, etc.), PLC, Fanuc Robotics

- **Databases**

MongoDB, Atlas, SQL

Employment

Software Consultant

Quandary Peak Research | Austin, TX | Oct 2023–Present

- Serve as a consultant and source-code analyst in litigations, including patent and copyright infringement, breach-of-contract matters. Skilled in source code review and reverse-engineering.

Application Developer, Internship

Weeve.ai | Irvine, California | May 2023–Sept 2023

- Developing an AI chatbot using open-source code from Databerry.ai to analyze hospital documents with Natural Language Processing to generate helpful responses to users.
- Interacting with advanced technologies such as Next.js, PostgreSQL, and OpenAI to reverse-engineer document-preprocessing functionality.

Program Manager

Applied Materials | Austin, TX | March 2023–May 2023

- Learned basic manufacturing process of semiconductor equipment for DDP (Dielectric Deposition)

Senior Associate Technology Consultant

Lumenci | Austin, TX | Mar 2021–Mar 2023

- Led source code review, data analysis, and product testing in complex technology litigation matters against +\$150B companies resulting in saving clients 50% of technical litigation costs.
- Improved customer loyalty and retention by presenting targeted and accurate recommendations based on source code review and data analysis, resulting in the client requesting my leadership on follow-on projects.
- Managed two junior analysts on consulting engagement in the video streaming industry, using market research and data visualization to increase the value of the infringement case for the client by \$30MM.
- Calculated the dollar-value of smartphone Wi-Fi technology using a network sniffer tool to analyze Wi-Fi packets for an increase in bandwidth transmission to help clients increase damages by 250%.
- Tested devices (e.g. smartphones, routers, computers) and software applications to reverse-engineer various functionalities using industry-standard tools, source code review, and product documentation research.
- Authored and published a technical blog about accelerometers to expand the company's thought leadership and market presence in the mechanical-electric industry.

Robotics Engineer

Wilder Systems Robotics | Austin, TX | June 2020–Mar 2021 & Aug 2023–Oct 2023

- Led the development of an airplane-drilling robot and presented weekly risks and dependencies to leadership regarding the project's progress.
- Designed a solution for a 2000-pound robotic system to autonomously locate an airplane and park in front of it using a PLC, laser distance sensors, and omni wheels to decrease parking time to 20 seconds.
- Identified inefficiencies in robotic software architecture and implemented solutions by redesigning the software to operate from a centralized PLC, leading to more efficient software updates in the future.
- Developed an algorithm to identify the location of a screw on an airplane with machine learning technology and then drill said screw in the center for removal on an airplane frame to automate a dangerous task.
- Interfaced and coordinated with 3rd-party robotics companies/vendors to integrate various technologies (robotic arms, PLCs, vision systems, distance sensors) into a single robot for airplane drilling applications.

Litigation Consulting

- **Electronic Devices Including Smartphones, Computers, Tablet Computers, and Components Thereof**

Dec 2023–Present

Jurisdiction: International Trade Commission (ITC)

Case Number: 337-TA-1373

Counsel: Alston & Bird LLP

Nature of Suit: Patent

- **Touchstream Technologies, Inc v. Charter Communications, Inc** | Nov 2023–Present

Jurisdiction: Eastern District of Texas

Case Number: 23-cv-00059

Counsel: Shook, Hardy & Bacon LLP

Nature of Suit: Patent

Technology: Video Streaming

- **Smart Mobile Technologies, LLC v. Samsung Electronics Co. Ltd.** | Oct 2023–Present

Jurisdiction: Western District of Texas

Case Number: 6:21-cv-00701

Counsel: Graves & Shaw LLP

Nature of Suit: Patent

Technology: Wireless Networking, LTE, WiFi

- **AGI Suretrack, LLC v. Farmers Edge Inc** | Sept 2023–Present

Jurisdiction: U.S. District Court for the District of Nebraska

Case Number: 8:22-cv-00275-JFB-SMB

Counsel: Irell & Manella LLP

Nature of Suit: Patent

Technology: Farming technology, ECU data parsing

- **WSOU v. Google** | Jan 2023–Mar 2023

Jurisdiction: Western District of Texas

Case Number: 6:20-cv-00584

Nature of Suit: Patent

Technology: Thermostat and Motion Sensing Technology

- **WSOU v. ZTE** | June 2022–Dec 2022

Jurisdiction: Western District of Texas

Case Number: 6:22-cv-00136

Nature of Suit: Patent

Technology: Wireless Networking, LTE, WiFi

- **UberFan, LLC vs. Snapchat** | Mar 2022–Apr 2022

Jurisdiction: District of Delaware

Case Number: 1:21-cv-00842

Nature of Suit: Patent

Technology: Geolocation Fencing

- **WSOU v. HPE** | Feb 2022–Apr 2022
Jurisdiction: Western District of Texas
Case Number: 6:20-cv-00729
Nature of Suit: Patent
Technology: Networking (Router and Switches)
- **WSOU v. Juniper** | Feb 2022–Apr 2022
Jurisdiction: Western District of Texas
Case Number: 6:20-cv-00903
Nature of Suit: Patent
Technology: Networking (Router and Switches)
- **RightQuestion v. Samsung** | Jan 2022–Feb 2022
Jurisdiction: Eastern District of Texas
Case Number: 2:21-cv-00238
Counsel: Mckool Smith
Nature of Suit: Patent
Technology: Biometric Authentication
- **Blue Yonder v. Kinaxis** | Aug 2021–Nov 2021
Jurisdiction: Northern District of Texas
Case Number: 3:20-cv-03636
Counsel: McKool Smith
Nature of Suit: Patent
Technology: Supply Chain Technology
- **Sito v. Hulu** | Apr 2021–Aug 2021
Jurisdiction: Western District of Texas
Case Number: 6:20-cv-00472
Counsel: Daignault Iyer
Nature of Suit: Patent
Technology: Video Streaming
- **Onstream v. Facebook** | Mar 2021–Apr 2021
Jurisdiction: Western District of Texas
Case Number: 6:19-cv-00708
Counsel: Daignault Iyer
Technology: Video Streaming

Patent Consulting

- **Sito Patent Analysis** | Aug 2021–Nov 2021
Counsel: Daignault Iyer
Nature of Suit: Copyright; Third-party Neutral
Technology: Video Streaming
Performed consulting services to search potential target companies that may be infringing on patents owned by Sito.