



Andrew Scouten

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SUMMARY

Software engineer with experience building data pipelines, distributed systems, and applied machine learning models for real-world applications. Background in research-driven development and cross-functional collaboration across academic and engineering teams.

EDUCATION

Texas State University

Master of Science in Computer Science

December 2026

Bachelor of Science in Computer Science

May 2023

EXPERIENCE

Graduate Research Assistant

May 2023 - Dec. 2025

Texas State University

San Marcos, TX

- Conducted research for the [Texas Department of Transportation \(Project 0-7150: AI for Pavement Condition Assessment from 2D/3D Surface Images\)](#).
- Built and maintained data pipelines for large scale pavement imaging datasets; designed, trained, and evaluated CNN and transformer-based models for crack detection, leading to a conference poster and peer-reviewed publication.

Undergraduate Researcher

Jan. 2023 - Dec. 2024

Texas State University

San Marcos, TX

- Contributed to [NASA-backed SpaceX-21 research on bacterial adhesion and corrosion](#) using International Space Station derived samples.
- Developed data organization and quality-control pipelines; applied classical machine learning and deep learning methods for corrosion segmentation and labeling, resulting in a peer-reviewed publication.

Java Developer

Jan. 2021 - Jan. 2024

LurgCraft, Minecraft Network

Remote

- Sole Java developer of [LurgCraft](#), engineered cross-server communication systems for a distributed multiplayer environment, enabling real-time synchronization across multiple servers, versions, and platforms.
- Delivered 20 custom projects and 46 enhancements to existing codebases, strengthening ability to rapidly understand and extend legacy systems.

PROJECTS

Hackathons

2025, 2026

- Federated Learning (2026)*: Coordinated a team of 15 contributors across three sub-projects, guiding architecture and development. Co-developed [OncoLearn](#), a multi-modal ML toolkit for cancer genomics and biomarker discovery.
- Knowledge Graph (2025)*: Co-developed [ClassiGraph](#), a Graph Neural Network for multi-modal cancer subtype classification.

TXST Center for Analytics and Data Science (CADS)

2023, 2024

- Summer Workshop (2023)*: Collaborated with 3-5 non-CS researchers to apply AI methods to domain-specific problems over an intensive 3-day workshop.
- Annual Analytics Showcase (2023, 2024)*: Presented TxDOT AI research to non-technical audiences, improving ability to communicate complex concepts clearly.

SKILLS

Technical Skills:

Python, C++, C, C#, Java, JavaScript, TypeScript, R, PyTorch, CUDA, Scikit-learn, React.js, React Native, Vue, Node.js, Expo, PostgreSQL, MongoDB, Redis, MySQL, Docker, Linux Systems, Git, Anaconda, CMake, Maven, Gradle

Languages:

English (Native), German (Conversational, A2/B1)