

# TIFFANY MARIE FOSTER

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## SUMMARY

Clinical research professional with 100+ neurosurgery observation hours, expertise in 3D MRI segmentation, SQL database design, and medical illustration. Crossover background in software development, federal contracting, and Agile project management; pursuing PA school.

## EDUCATION

**B.A., Economics -- California State University, Fullerton**

May 2020

## CLINICAL EXPERIENCE

**Clinical Observer, Academic Neurosurgery** | LSU Health Sciences Center Shreveport

May 2025 - Present

- Completed 100+ hours across inpatient, OR, and outpatient settings with attending neurosurgeons and residents; observed spinal fusion, decompression, and interbody procedures.

## RESEARCH EXPERIENCE

**Research Volunteer, Spinal Intelligence Laboratory** | LSU Health Sciences Center Shreveport

2025 - Present

- Built custom SQL research database: relational schema, DICOM ingestion workflows, and cataloging of large lumbar MRI datasets.
- Performed 3D volumetric MRI analysis (3D Slicer, ITK-SNAP); generated publication-quality segmentation maps and figures for manuscripts.
- Contributed to automated VBQ scoring pipeline (Python/SimpleITK); validated outputs across large MRI cohorts.
- Medical illustrator for peer-reviewed publication: Quinones C et al. Journal of Neurosurgery: Case Lessons. 2025;10(12).
- Mentored medical students in departmental summer research program.

## PROFESSIONAL EXPERIENCE

**Software Developer & Data Systems Consultant** | Qempire / Clinicians with Ambitions, LLC

2025 - Present

- Developed custom software for investigative, wellness, and clinical clients: Clinicos (clinical DB platform), PI case management software, and React/Vite web applications.

**Construction Project Manager / Contract Specialist** | U.S. Air Force

2024 - Present

- Managed 12 active construction contracts (\$5M+); coordinated end users, civil engineering, and contractors through full project lifecycle with FAR/SBA compliance.
- Drafted and administered commodities contracts (\$1.3M+); conducted market research, solicitations (RFQ/BPA/RFP), and CPARS evaluations.

**Administrative Assistant / Office Manager** | John Snowball CPA, Inc. / Forte Stone

2013-2020

- Full-cycle bookkeeping, IRS and CA state tax filing, client relations, and office operations.

## SKILLS

**Medical Imaging:** 3D Slicer, ITK-SNAP, MicroDICOM, Pydicom, VBQ/EBQ scoring, AI-assisted segmentation

**Database & Dev:** SQL/Postgres, Python, JavaScript/React, Git/GitHub, REST APIs, Computer Vision

**Project Mgmt:** Agile/Scrum, Lean Six Sigma, Federal Contracting (FAR, CPARS, RFQ/BPA/RFP)

**Languages:** Mandarin Chinese (HSK Level 5), Japanese (limited working), English (native)

## CERTIFICATIONS & DEVELOPMENT

Agile/Waterfall Project Management (LinkedIn) | Lean Six Sigma (in progress) | PMP - PMI (in progress) | Federal Contracting Certificate (in progress) | Coursera: Programming & Data Science (ongoing)