

# Quasar Jarosz

📍 Little Rock, AR    ✉ quasar@jarosz.me    ☎ (501) 425-5144    🌐 quasarj

## Summary

---

Senior software engineer with 20+ years of experience building and maintaining production systems across telecommunications, courts, and healthcare informatics. I've led small teams, mentored junior developers, and worked across the stack — from Linux infrastructure and backend services to modern web frontends. I'm drawn to projects with real-world impact, open standards, and clean, well-designed APIs.

## Experience

---

**Senior Programmer / Data Curation Manager**, UAMS DBMI Nov 2015 – present

UAMS DBMI develops computational tools for biomedical research and clinical care. I led a small team responsible for the department's work on The Cancer Imaging Archive (TCIA), an NIH/NCI-funded public repository of de-identified medical imaging used by cancer researchers worldwide — building and maintaining the pipelines, tooling, and de-identification workflows that move imaging collections from contributing institutions into TCIA.

- Managed a team of 4 developers building TCIA's data curation tooling.
- Led major expansion and ongoing Python migration of Posda, an open-source Perl DICOM archive for storing, searching, modifying, and de-identifying imaging collections submitted to TCIA.
- Built Quince, an Angular DICOM viewer with a custom from-scratch parser designed to surface file-level errors that off-the-shelf DICOM loaders silently tolerate; integrated into Posda.
- Built Kaleidoscope, a Maximum Intensity Projection generator with an Angular frontend, Python backend, and custom C renderer — accelerated visual inspection during de-identification by 5x.
- Led development of Mirabelle, a React/Webpack tool built on Cornerstone3D for 3D volume visualization and 3D-region redaction of DICOM series, with Nifti loading for visual review.
- Administered the Linux infrastructure running TCIA and Posda in production.
- Led the containerization of Posda for its public release.
- De-identified medical imaging collections to HIPAA standards using Posda and CTP (Clinical Trials Processor).
- Mentored junior developers and staff in Python, SQL, TypeScript, React, and systems administration.

**Software Engineer**, Arkansas AOC July 2011 – Nov 2015

Organized under the Arkansas Supreme Court, the AOC (Administrative Office of the Courts) maintains the statewide Case Management System (CMS) used by Arkansas courts. I led data conversions from external systems onto the CMS, and developed and maintained reports, automation, and supporting infrastructure.

- Led the data conversion of the largest district court in Arkansas onto the AOC's CMS.
- Developed and maintained 30+ Oracle Reports and Jasper Reports used by court administrators statewide.
- Administered Linux servers and services supporting the statewide CMS, and wrote scripts to automate routine maintenance.
- Mentored new developers in Python and Oracle SQL.

**Applications Programmer**, Alltel Communications / Verizon Wireless Apr 2006 – Jan 2011

Built automation tools and internal applications for the Cash Assurance department.

- Automated rate plan data entry across two billing systems — a Windows GUI app and an IBM mainframe terminal — using Autolt and Python.
- Built a PHP/MySQL data tracking system that scaled to hundreds of users and thousands of entries per day.

**Financial Analyst**, Alltel Communications

June 2004 – Apr 2006

Responsible for ensuring accurate deposits from retail stores.

- Built custom Cash Control applications in MS Access, C#, MySQL, MS SQL, and Oracle — earning a transition into a full-time programmer role.

## Skills

---

**Languages:** Python, Perl, TypeScript, vanilla JavaScript, SQL

**Frontend:** Next.js, React, Angular, Vite, Webpack, Tailwind, HTML/CSS

**Backend:** FastAPI, Django, Uvicorn, Nginx, Apache, HAProxy, Redis, Keycloak, REST, Supervisor

**Databases:** PostgreSQL, MariaDB/MySQL, Oracle

**Systems:** Linux, Docker, Kubernetes, OpenShift

**Cloud & Infrastructure:** AWS, GCP, Dell ECS

**Healthcare Informatics:** DICOM, CTP, HIPAA de-identification

## Education

---

**University of Arkansas at Little Rock**, BS in Computer Science

Jan 2008

## Interests

---

**Astrophotography:** Deep-sky imaging, telescope setup, and post-processing; member of the Central Arkansas Astronomical Society

**Custom keyboard firmware:** QMK

**Software-defined radio:** HackRF experimentation, receiving weather-satellite imagery; studying for amateur radio Technician license

**3D printing:** FDM and resin (SLA)

**Homelab and device hacking:** Self-hosted services, hardware tinkering (e.g., reMarkable 2)