

Josh Gilberstadt

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PROFESSIONAL EXPERIENCE

C2N Diagnostics — Data Manager, St. Louis, MO

Mar 2022 – Present

- Automated Amyloid Probability Score calculations via R scripts, achieving a 90% reduction in manual processing time and eliminating human error in biomarker reporting
- Generated statistical summaries using R and Markdown to assess batch-to-batch consistency for biomarker data and mass spectrometer calibration
- Engineered data validation workflows using Python (NumPy, Pandas) to ensure 100% accuracy between raw mass spectrometer measurements and final clinical datasets
- Developed interactive real-time dashboards in Smartsheet and Excel to monitor turnaround KPIs for 1000+ clinical subjects
- Led weekly team meetings to review project progress, identify performance gaps, and implement procedural improvements

Washington University School of Medicine — Data Engineer, St. Louis, MO

Aug 2021 – Jan 2022

- Analyzed intracranial volume estimates in R and Python to determine the effectiveness of various brain extraction models
- Architected and deployed shell-scripted ETL pipelines to automate large-scale brain segmentation workflows, increasing processing throughput

Washington University in St. Louis — Research Assistant, St. Louis, MO

May 2019 – Dec 2019

- Built Python/SQL databases and webpages to facilitate lung transplant patient data access

TECHNICAL PROJECTS

- Engineered a professional portfolio Progressive Web App with 100/100 Lighthouse scores; built a custom service worker for offline use and a state-aware dark/light theme engine

EDUCATION

Georgia Institute of Technology | M.S. in Computer Science | Jan 2026 – Present

Washington University in St. Louis | B.A. in Mathematics, High Distinction | May 2021

SKILLS & CERTIFICATIONS

Languages: Python, SQL, R, Java, C, JavaScript, HTML/CSS

Data Science & Cloud: AWS, Statistical Analysis, Predictive Modeling, ETL Pipelines

Tools: Git, Linux (Bash), VS Code, Database Development, PWA Architecture

Certifications: AWS Certified Cloud Practitioner — Jan 2025