

# Josh Gilberstadt

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## EDUCATION

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### Washington University in St. Louis

Bachelor's in Mathematics with High Distinction

Aug 2017 – May 2021

## PROFESSIONAL EXPERIENCE

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### C2N Diagnostics

St. Louis, MO

Mar 2022 – Present

Data Manager

- Constructed R code that automated the calculation of Amyloid Probability Scores, resulting in a 90% reduction in processing time
- Performed quality control checks on blood sample data using NumPy and Pandas, ensuring a 0% discrepancy rate between the data obtained from the lab and the data sent to sponsors
- Produced statistical summaries of blood sample data using R Markdown and Python that determined if the distribution of a new batch of biomarker concentrations approximated the distributions of previous batches
- Developed databases and quantitative charts in Smartsheet and Excel to track data turnaround time for over 1000 research subjects, allowing sponsors to easily monitor long-term turnaround time trends
- Drafted standard operating procedures that outlined proper processes for generating, reviewing, and transferring biomarker data files

### Washington University School of Medicine

St. Louis, MO

Aug 2021 – Jan 2022

Data Engineer

- Performed statistical analyses of intracranial volumes calculated by different brain extraction methods using R and Python, helping imaging scientists identify which methods produce the most consistent results
- Created data pipelines by developing shell wrapper scripts that submitted brain segmentation jobs through Slurm Workload Manager, allowing specific brain regions of patients with and without dementia to be directly compared
- Inspected MRI scans of brains and corresponding brain masks using FSLeyes and AFNI to determine if the masks covered the appropriate regions of the brain scans and could be included in statistical analyses

### Washington University in St. Louis

St. Louis, MO

May 2019 – Dec 2019

Research Assistant

- Designed websites and relational databases using Python and SQL that allowed Washington University physicians to easily access lung transplant patient data
- Developed Android app for lung transplant patients to record at-home recovery progress

## SKILLS

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- Python
- SQL
- Data Visualization
- Predictive Modeling

- C++
- Bash
- Statistical Analysis
- MS Excel

- Java
- R
- Git
- Database Development

## CERTIFICATIONS

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AWS Certified Cloud Practitioner

Jan 2025