

Ryan Mathew

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TECHNICAL SKILLS

Applications: Tableau, Excel, Git, ArcGIS Pro, Microsoft Suite, Google Suite, Teams

Programming Languages: R, SQL, Java, Python

EDUCATION

Bachelor of Science in Data Visualization

Expected, June 2027

University of Washington Bothell

- GPA: 3.88 | Dean's List: 7 Quarters

Relevant Coursework: Advanced Visualization, Statistical Inference, Data Visualization, Data Studies, Business Statistics, Programming II, Data Management, GIS, Data Science Skills, Matrix Algebra, Calc III

EXPERIENCE

Residential Advisor, University of Washington Bothell

September 2025 – Present

- Leads community engagement initiatives, mediates conflicts, and supports resident well-being through check-ins
- Responds to on-call safety concerns and policy situations while coordinating with housing staff

Data Analyst Intern, Washington West African Center

July 2025 – August 2025

- Cleaned and analyzed service request data such as food drives, VITA, and ESL classes using Excel and Tableau to quantify community impact and demographic reach
- Presented graphs to the executive director to showcase trends in form submissions, community demographics, and community issues, such as 62% of applicants being unemployed
- Created a reference document of visualizations to aid the nonprofit in securing future funding from state officials and community stakeholders

Peer Career Advisor, University of Washington Bothell

September 2023 – August 2025

- Managed team projects using MS Planner, ranging from student demographic data analysis with Excel, to prototyping an AI resume reviewer app with PartyRock
- Conducted online and in-person appointments with students to answer career-related questions, review resumes, and assist students in the job search process

PROJECTS

Extern, Center for Improving Youth Justice Data Analytics Program

August 2026 – Present

- Aggregated survey data (~5,000+ responses, 85 facilities) into facility-level metrics using Python (pandas)
- Ran and interpreted a regression analysis (statsmodels) linking staff and youth safety perceptions, then stress-tested it for bias and confounding
- Directed Claude as a coding and analysis partner, independently verifying and revising its output throughout

Cost of Living With U.S. Census Data, Advanced Visualization

November 2025 – December 2025

- Pulled U.S. Census ACS data via API in R, filtering 28,000+ variables to compile county-level cost-of-living datasets across Washington State and the U.S.
- Built an interactive geographic heatmap using tmap within a deployed Shiny web dashboard to visualize regional affordability trends
- Tracked team contributions using Git/GitHub for version control, troubleshooting, and workflow coordination

Tech Job Market Analysis, Data Studies

August 2025

- Wrangled job listing dataset with over 1.5 million entries using RStudio to prepare for visualization
- Utilized R tidyverse packages such as ggplot2 to visualize trends in tech job listings over time in WA, TX, and CA
- Created and presented project dashboard in a team of 5 to showcase graphs and findings while supporting them with peer-reviewed research papers
- Documented data process in R Markdown HTML report summarizing findings and future tech job market trends

EXTRACURRICULAR

Consultant, Bothell Consulting Association

February 2026 – Present

- Researched transportation logistics and conducted partnership outreach for a local nonprofit education client
- Compiled and presented findings and partner leads to client to help shape final direction
- Promoted from Consultant-in-Training after placing 2nd out of 16 teams in the final BCA x DSP Case Competition