Jonathan Sebastiani

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Dedicated data visualization graduate who is driven, technically strong, and adaptable. Aiming to leverage my interdisciplinary background, intellectual curiosity, and personal values to advance data projects toward impactful results that help others. Frequently praised as a problem solver and driving force in team projects by my peers and supervisors, I will be an asset to any group in achieving its goals.

Education

Bachelor of Science (3.63 GPA) June 2025

Major in Data Visualization, Minors in Data Science and Computer Science & Software Engineering

University of Washington Bothell - Bothell, WA

Experiences

Data Handling & Analysis

Data Reports March 2023 – June 2025

- Developed high-quality data collection and data entry skills through hands-on scientific research projects, including biology and environmental monitoring.
- Utilized advanced R, SQL, and Python techniques to clean, analyze, and manage real-world datasets, ensuring data accuracy.
- Leveraged thoroughly cleaned datasets to calculate data statistics, create visualizations, and format results into easily digestible analysis reports for both technical and non-technical stakeholders.
- A key data report involved performing advanced relational database queries using SQL to effectively provide policy-driving analyses, including employee performance and location-based sales.

Data Visualization Projects March 2023 – June 2025

- Performed business analytics on a third-party organization using Tableau statistical modeling, creating a dynamic report that highlights key areas for product management improvements.
- Presented effective network data visualizations developed through network graph theory and advanced data visualization techniques in R to identify critical aircraft-based data features.
- Utilized ArcGIS data software to develop strong geo-political data visualizations and dynamic reports through overlay analyses, interactive features, and advanced spatial statistics.

Bioinformatics Capstone January 2025 – March 2025

- Used Python to develop interactive 3D statistical models, helping health researchers choose analytically between top-ranked protein structure prediction algorithms.
- Combined modern AI programming tools (eg. ChatGPT, GitHub Copilot) and advanced statistical programming skills to manage and analyze large and complex molecular datasets.
- Presented key findings to a target audience, leveraging excellent verbal and written communication skills, concise report design, and effective visualizations.
- Programming a real-world statistical model refined skills in collaborative software development, advancing areas like version control, troubleshooting, and specified design.

Computer Science and Software Engineering

Portfolio Website April 2025 – Current

- Driven by intellectual curiosity in web development, I studied full-stack development techniques through online learning resources.
- Key developmental skills I utilized include HTML, CSS, JavaScript, Node.js, Express, MongoDB, REST APIs, database integration and management, UI/UX design, AI programming tools, and dynamic web features.
- My portfolio website showcases and elaborates on my personal background and notable projects.

Sorting Algorithms Analysis Final Project January 2024 – March 2024

- Used C++ programming skills in data structures to translate calculus-based sorting algorithms into program functions.
- Leveraged Excel database and visualization functionalities to graph the correlation between database size and time complexity for common sorting algorithms, defining best-use case scenarios.

Software Engineering Courses March 2022 – August 2024

- Conducted complex software labs using C++ and Java, solidifying advanced techniques such as recursion, data structures, lists and queues, and sorting functions.
- Explored ML/AI to implement structured and unstructured learning models through Python libraries, including PyTorch and TensorFlow.
- Gained experience utilizing modern AI programming tools (eg. GitHub Copilot, ChatGPT) for efficient and thorough software development in real-world applications.
- Ensured QA/QC in data and software products through defining explicit requirements, following workflow and SDLC guidelines, and utilizing version control.

Personal & Work

Collegiate Cheer – University of Washington May 2021 – Nov 2024

- I applied my athletic and personal skills to learn advanced acrobatic stunts and tumbling at the collegiate level, cultivating self-accountability and time management.
- Utilizing my perseverance and teamwork skills, I led my team in both the Division 1A Large Coed and Gameday competitions at the 2024 Universal Cheer Association (UCA) College Nationals.
- Driven by my ambition and work ethic, I became the first athlete in UW history to compete at the United Spirit Association (USA) Collegiate Championship in the partner stunting division, earning 4th place in 2023.
- My courage inspired strong motivation in my team, and I returned to compete the following year with many teammates competing alongside me, bringing a renewed competitive standard to UW cheer.

Manager – Barbie’s Berries, Ferndale, WA Summers 2019 – 2022

- Efficiently managed a team to meet deliverables by delegating tasks, monitoring performance, and facilitating open communication.
- Led by example to foster a supportive workplace culture that prioritizes team well-being, increasing morale and productivity.
- Developed diverse workplace skills through experience in sales, customer service, product management, and finance.

Awards and Honors

University of Washington

- LinkedIn Learning Certificate of Completion – SQL Essential Training: October 2025
- Annual Dean's List (x2): 2023 – 2024, 2024 – 2025
- Dean's List (x8): Winter 2023 – Winter 2025

Technical Skills

Data Handling & Analysis

Statistical Programming Languages – R, SQL, Python

Platforms – Excel, Tableau, Jupyter, ArcGIS Pro, SQLite, DB Browser, MongoDB

Packages – Python (NumPy, PyTorch, TensorFlow, pandas, plotly, matplotlib), R (tidyverse, ggplot2, dplyr, lubridate, glue)

Data Manipulation – Data cleaning and preprocessing, transformations and mutations, database engineering, relational database analysis, data pipelining

Data Visualization – Graph and map theory, statistical analysis, visual and verbal communication, geospatial visualizations, dynamic visualizations, dashboard and report design, aesthetic design

Other – Algorithm and function analysis, experimental design and execution, mathematics

Computer Science and Software Engineering

Computer Programming Languages – Java, C++, Python, R, JavaScript, HTML, CSS, C#, Bash

Platforms – Git/GitHub, Docker, Visual Studio Code, IntelliJ, RStudio, JupyterHub

Computer Science Techniques – Object-oriented programming, data structures, statistical programming, event-driven architecture, database integration and development, UI/UX design, REST APIs, relational databases, program and algorithm complexity analysis, scripting, code review, testing, debugging

Software Engineering – Architecture and design, software development life-cycle methodologies, workflows, configuration management, containerization and virtual environments, code documentation, code review

Other – Microsoft Office tools (Excel, Word, etc.), web development (Node.js, Express, MongoDB), embedded systems, computer-aided design (CAD), 2D and 3D video game development (Unity)

Interpersonal Skills

Personal – Adaptability, intellectual curiosity, creativity, critical thinking, problem solving, organization, strong work ethic, attention to detail, time management, collaboration

Communication – Verbal and visual communication, presentation, conflict resolution, active listening, compassion, relationship building

Leadership – Team management and task delegation, team-oriented, compassionate, leads through example