

Tyler Bontrager



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Objective: Highly ambitious recent graduate with a passion for learning and solving problems. Inspired by the positive impact technology has on people's lives, hoping to contribute helpfully to the growing need for efficiency and answers through critical and creative ways of thinking. Looking to jumpstart a career in data analytics, hone technical skills, make meaningful contributions to cutting-edge technologies.

Education

Willamette University, Salem, OR

Aug. 2019 – May 2023

Bachelor of Science: Computer Science, Data Science

GPA: 3.25

Relevant Coursework

Computer Science: Programming with Python, Data Structures, Algorithm Analysis, Networks and Systems, Ethics, Topics in Cybersecurity, Symbolic Logic, Advanced Math. **Data Science:** Data Science with R, Inferential Statistics, Data Management with SQL, Machine Learning, Ethics, Math for Data Science

Professional Experience

Sylvan Learning Center of Salem

Salem, OR

Senior Tutor

May 2022 – PRESENT

- Delivered effective personalized tutoring of standard K-12 subject content fulfilling students' unique needs.
- Undertook a sub-program in Mill City to tutor a small group of 6 students during the summer.
- Delivered personalized one-on-one sessions to develop understanding of advanced mathematical concepts.
- Operated Study Hall program to assist 3 - 5 students at a time with completing homework and catch up.

Willamette University

Salem, OR

US 2020 Census Twitter Data Research Assistant

Jan 2023 – Jun 2023

- Encoded 8450 rows of data to set a ground truth for an NLP classification training model.
- Drafted a log to justify decisions to enforce consistency and facilitate collaboration.
- Recorded notes of information from dataset to preserve thoughts and insights used for final deliverable.
- Created R scripts to reduce repetition of data in columns of interest to expedite the encoding process.

Willamette University

Salem, OR

Computer Science Department Tutor

Mar 2021 – May 2022

- Helped dozens of students better conceptualize CS-related topics to improve confidence in class and on homework.
- Utilized detailed diagrams and performed demos to aid understanding of advanced mathematical concepts.
- Dedicated off-time to self-learn concepts in machine learning, networking, and programming practices.

Willamette University

Salem, OR

Graph Convolutional Neural Networks Research Student

Jun 2021 – Sep 2021

- Surveyed literature to learn applications of GCN networks for the social influence maximization problem.
- Collaborated with professor and research partner through regular meetings to make meaningful progress.
- Presented findings via slideshow and poster at home school symposium and at the Consortium for Computing Sciences in Colleges (CCSC) conference.

Willamette University

Salem, OR

Colloquium Associate

Fall 2021 – Fall 2022

- Facilitated weekly classes pertaining to crucial aspects of college life to offer students a smoother transition.
- Held regular office hours 3 times per week to serve as a resource for 12 first-year students in the colloquium cohort.
- Designed and distributed regular check-in surveys to gauge the needs of students and make tailored adaptations.

Willamette University

Salem, OR

Resident Advisor

Jan 2022 – May 2022

- Supported residential community development by planning fun event programs tailored to hall interests.
- Curated engaging material for the hall's bulletin board to promote activities and programs for residents.
- Interacted with residents in one-to-one conversations to establish meaningful connections.
- Responded to interpersonal concerns impartially; accurately, fairly, and fully documented incidents when necessary.
- Upheld federal and school-wide policies to maintain confidentiality and promote a safe living environment.

Residence Hall Association

Salem, OR

*Senior General Assembly**Sep 2021 – May 2023*

- Committed about 90 hours in weekly meetings to discuss over 100 requests to support residents and programming.
- Maintained perfect attendance for meetings during the 2022-2023 academic year.
- Participated in committee meetings to facilitate efficient planning for the organization's hosted school-wide events.

Goudy Commons

Salem, OR

*Catering Staff**Sep 2022 – May 2023*

- Prepared and transported equipment to swiftly set up dozens of catered events for Willamette community.
- Balanced time for catering schedules to prioritize urgent and high-effort contracts while still fulfilling smaller ones.
- Tended several catered bars with skillful knowledge of available wines, beers, and ciders.
- Often worked late nights to ensure catering equipment was readily available and clean for the next shift.

Goudy Commons

Salem, OR

*Senior Service Staff**Mar 2021 – May 2023*

- Provided high-quality meals to 300 - 400 students per shift in a sanitary work environment.
- Supported occasional yet popular events throughout the school year seeing between 800–1200 patrons of all kinds.
- Oversaw training of newer staff members, helped coordinate understaffed shifts, and ensured a clean servery.

South Commercial Dairy Queen

Salem, OR

*Senior Crew Member**Sep 2018 – Feb 2020*

- Communicated effectively to understand orders and worked quickly to make quality products in under 3 minutes.
- Worked around bottlenecks and performance hindrances to maintain customer satisfaction.
- Led team members by demonstrating high-performance processes and high-value behaviors.
- Promoted a positive atmosphere by expressing enthusiastic energy, confidence, and a fun, optimistic attitude.
- Ensured a perpetually clean work environment to boost aesthetic neatness and order.

Extra Experience**Council on International Education Exchange**

Tokyo, Japan

*Tokyo Study Abroad Student**Jul 2023 – Aug*

- Attended a 6-week program to study Japanese art history and analyze Japanese popular culture.
- Wrote two analytical papers totaling 2,635 words:
 - Analyzed the extent to which localization affects the popularity of visual novel games.
 - Reflected critically on the influence that political power has on art in the Edo period based on art from Toshouguu shrine in Nikko, Japan.
- Utilized circumlocution techniques to effectively communicate more complicated ideas in simpler ways.
- Collaborated with other students to present about Japanese Ningyou (doll) art across different periods.

Wrote daily in a journal to record important or noteworthy events for later compilation projects.

Projects

Personal Website

Developer

Jan 2023 – PRESENT

- Created from-the-ground personal website to document profile of personal achievements and skill development.
- Continuously applying knowledge of HTML/CSS and Javascript to enhance website features.
- Maintained a record of changes by following intentional system documentation to ensure organization.

X (Form. Twitter) Data Research

Contributor

Jan 2023 – Jul 2023

- Used sentiment analysis to investigate perspectives on US 2020 Census citizenship question on X (form. Twitter).

Datafest

Participant

Fall 2022 – Fall 2023

- Contributed valuable insights to two weekend data wrangling and analysis events using large, raw datasets.
- Practiced common techniques used for exploratory data analysis, visualization, stat testing, and communication.

Atomic Chess Games Analysis

Lead developer

Jan 2021 – Mar 2021

- Processed thousands of games in raw dataset to facilitate analysis by developing regression models.
- Used machine learning techniques to derive novel insights about games of Atomic Chess.

Dandyhacks

Co-developer

Nov 2020

- Developed on Unity engine to create original draft of a working multiplayer game.

2048 Games

Developer

Apr 2017, May 2019

- Developed two functional versions of the game 2048: one project developed graphically using Java, the other console-based version developed in Python.

Skills

Hard: conflict resolution, customer service, multilingual, Oregon liquor laws, shift leadership, tech savvy,

Soft: adaptive, analytical, collaborative, communicative, competent, creative, critical thinking, dedicated, independent, time management.

Technical: Bash, C, C++, Git, HTML/CSS, Java, JavaScript, MATLAB, MySQL, NumPy, Pandas, PostgreSQL, PowerShell, Python, SQL, R.

Conceptual: Computer Networking, Computer Vision, Data Analysis and Visualization, NLP, Web Development, Quality Assurance, Software Testing.

Languages: English, Spanish, Japanese

Honors

Awards: NSF S-STEM Scholarship (2019–2023), Dean Merit Scholarship (2019–2023), College Honors (Fall 2020)

Certifications: OLCC (2023), EFC Food Handler (2021), ODE Seal of Biliteracy (2019), AHA First Aid (2016)