

VIVIAN YU

<https://pwy8900.wixsite.com/vivianyu> | www.linkedin.com/in/vivian-yu-peiwenn | peiwen.vivian.yu@gmail.com | Seattle and Taiwan

Education

University of Washington, Seattle

Sep '19 - Jun '23

Overall GPA: 3.76 (Dean's List & Husky Leadership Certified)

B.S. Informatics (Data Science) and B.A. Education, Communities, and Organizations

Related Coursework: Lean Methodology, Agile Project Management, Azure Project Management, Product and Information Systems Management, User/Data Flow Diagram, Data Visualization, Data Science, Database and Data Modeling, Object-oriented Programming, API, Client-side Development

Skills

Programming: SQL, Python (NumPy, Pandas, Sklearn), R, Java, D3.js, HTML, CSS, JavaScript, React, Git

Tools: Agile, Notion, Tableau, PowerBI, Excel, NoSQL(Firebase), Azure, Jupyter Notebooks, SSRS, JIRA, Figma

Work Experience

Research Analyst: Shoreline Community College Planning & Institutional Effectiveness

Oct '23 - Aug '24

- Collaborated with the President's Office to collect ad hoc data and develop strategic action plans with data-informed decisions for seven-year cycle accreditation visits to secure around \$7,000,000 in grants
- Conducted in-depth analysis of enrollment trends spanning five years, leveraging insights to forecast revenue projections; Implemented quarterly calling campaigns, resulting in a consistent 3% to 5% increase in enrollment
- Queried course success and retention data from the **PeopleSoft Database** to measure Equity Gaps in the institution
- Administered faculty and student surveys to discern the institutional sense of belonging and managed the Integrated Postsecondary Education Data System seasonal reports covering HR, financial aid, and student outcomes for the U.S. Department of Education, aiding decision-making for prospective students

Research and Data Analyst Intern: King County Adult & Juvenile Detention (DAJD)

Jun '22 - May '23

- Developed automated DAJD Demographics **Data Dashboard** with the BI Engineer to demonstrate and compare the headcount based on ethnicity, gender, and the supervisory level over time to the Senior Management Team
- Analyzed the Employee Engagement Data with **Excel** using **pivot tables** and generated a 5-page data analysis report with story-telling insights reviewed by a statistician and a senior manager to present to 500+ employees
- Compiled the first annual report on how the Equity and Social Justice Strategic Plan was executed in DAJD with data visualizations using **Oracle BI** and Excel and composed an infographic to showcase to all employees easily

Product Manager: UW Office of Global Affairs https://oga-dev.s.uw.edu/openalex/build_old/

Jan '23 - Jun '23

- Oversaw UW's global co-authored publication dashboard project by delivering an **MYSQL Database** populated with 2,000,000+ rows of data from **OpenAlex API** and by leading a 5-person team including data and software engineers
- Designed the **Entity Relationship Diagram** and conducted interviews and **user tests** with stakeholders to revise our features based on the concept validation, which saved at least 20 hours for the implementation
- Built the frontend of the webpage using **React** to enhance user experience and functionality

Resident Advisor: University of Washington

Sep '21 - Jun '23

- Mentored over 100 residents by developing 1:1 relationships, mediating roommates' conflict, creating community among diverse groups of students, connecting students to resources, and managing over 15 programs
- Demonstrated crisis management skills during weekly on-call shifts and operated under highly stressful and confidential environments such as interacting with students with mental illnesses

Foundational Skills for Data Science Teaching Assistant: University of Washington

Mar '22 - Dec '22

- Led weekly lab sections and held office hours on coding with **R**, **Shiny App**, **GitHub**, **HTML**, and **CSS** for 25 students and answered questions and guided them on debugging skills (Over 30% of them had no programming experience)
- Improved the grading rubric based on students' feedback and made the final decisions for grading as a TA lead

Research Assistant: National Taiwan University Human-Computer Interaction Lab

Oct '20 - Jan '21

- Increased the number of user studies on VR-related **AirRacket Project: Perceptual Design of Ungrounded, Directional Force Feedback to Improve Virtual Racket Sports Experiences** by 50%
- Co-authored user testing result analysis section by collecting data and producing data visualizations using R
- **Best Paper Award (top 1%)** in **ACM CHI Conference on Human Factors in Computing Systems Publication**

Software Quality Assurance Engineer Inter: NETGEAR

Apr '21 - Jul '21

- Executed detailed and well-structured manual test cases on routers and analyzed results using Tableau
- Debugged with Shell Script and reported bugs to the 20-person engineering team to improve user experience
- Reviewed requirements, specifications, and technical design documents to provide timely and meaningful feedback to cross-functional teams