

Vy Vuong

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EDUCATION

Seattle University

June 2023 - present

Bachelor of Arts in Computer Science, Minor in Data Science

Relevant Courses: Fundamentals of Databases, Statistics, Discrete Mathematics, Big Data Analytics, Data Visualization

Honors & Affiliations: Phi Theta Kappa, Alfie Scholars, and Tau Sigma Scholarship Recipient

TECHNICAL SKILLS

Data Visualization: Tableau, Matplotlib, Seaborn, Plotly

Programming Languages: SQL, Python, R, Java, F#, C#, C++, HTML, CSS

Database Management: MS SQL Server, SQLite, Google BigQuery, Excel

Cloud & IT Tools: AWS S3, Docker, Microsoft Azure, Google Cloud, Jira, Zendesk, Confluence, Colleague, Active Directory

Certifications: Google Data Analytics Professional Certificate, Responsive Web Design

EXPERIENCE

Software Engineer Intern | *Future Arts*

Sep 2024 - present

- Designed and implemented an automated data pipeline for the Future Arts Nest (FAN) database, leveraging **AWS Lambda, S3, and API Gateway** to extract, clean, and structure artist information from websites, improving data accuracy by **80%** and reducing manual entry by **60%**.
- Developed a data classification system using **Python** (Pandas, BeautifulSoup, SpaCy NLP) to normalize multi-source artist data, ensuring uniform schema for over **300+** artist profiles and enhancing data-driven decision-making for artist outreach.
- Integrated AI-driven analysis via OpenRouter API to categorize artists based on themes, mediums, and locations, enabling automated tagging, improving searchability within Airtable, and facilitating artist discovery.

Information Technology Intern | *Lakeside Upper School*

Oct 2024 - Present

- Automated data workflows using **Google Scripts and Python**, integrating APIs with Google Sheets/Forms to enhance data collection, processing, and reporting efficiency.
- Managed and analyzed IT support data from Zendesk tickets, identifying trends in hardware, network, and software issues to optimize troubleshooting strategies and resource allocation.
- Maintained and structured device loan program data, supporting **AI training** initiatives and documenting IT processes using Microsoft Loop, improving data organization and team collaboration.

Undergraduate Research Assistant | *Seattle University*

June 2024 - September 2024

Tools: Python using GALA, ASTECA, Pandas, NumPy, Matplotlib, Seaborn, Plotly, SciPy, AstroPy

Data Analysis: Stellar dynamics, isochrone fitting, proper motion analysis

- Implemented GALA to identify tidal tails and escaping stars in **3 globular clusters**: NGC 6544, Ter12, and Djor1
- Analyzed observational data from over **1,000 sources** in the Blanco DECam Bulge Survey (BDBS) and Gaia, deriving key parameters such as RA, Dec (degrees), radial velocity, proper motions (pmra and pmdec), and distance (km/sec) for **14 star clusters**, with a focus on a sample from NGC 6569 and NGC 6544.

PROJECTS

LinkUp | *React, Tailwind CSS, Flask, ProxyCurl API, OpenRouter API*

Participate in HackSU 2025 - Analyzed LinkedIn profile data to generate mentorship recommendations, applying data processing and ranking algorithms to optimize match accuracy.

London Bike Analysis | *Python, Tableau, Jupyter Notebook*

Conducted an analysis of London bike-sharing data, focusing on user behavior and trip patterns. Utilized Python and data visualization libraries like **Pandas** to extract insights, such as peak usage times, popular routes, and other trends to inform city planning decisions.

Triple AV Apartment Database | *PHP, MySQL, HTML/CSS, FileZilla*

Designed and queried a relational database to analyze housing trends, rental affordability, and user search behaviors, optimizing apartment search efficiency.

LEADERSHIP & ACTIVITIES

College of Science and Engineering Senator - Seattle University

April 2024

Actively advocated for student interests, spearheading initiatives to address academic concerns, enhance student resources, and strengthen collaboration between faculty and STEM students to foster an engaged and supportive academic community.

Alfie Scholars - Seattle University

Jun 2023 - present

Awarded Alfie Scholarship, being one of 10 transfer students selected for the highly competitive 2022-23 program focused on social change, problem-solving, leadership and critical thinking.