# Vincent Zhiyuan Zhou

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## SUMMARY OF QUALIFICATIONS

- Industry skills: Data Structures and Algorithms, database design, Backend Development, ML modeling, data analysis, data cleansing
- Proficient programming languages: Python, Java, MySQL, HTML, CSS, JavaScript, TypeScript
- Other proficient skills: Azure Cognitive Search, Mongo DB, Node.js, React.js, sklearn, Altair, matplotlib

## EDUCATION

**University of Washington (UW),** *Seattle, WA*                                    *Expected June 2023*

**Bachelor of Science, Human Centered Design & Engineering, Data Science Option**

*Relevant coursework (through Spring 2022): Machine Learning, Data Structures and Algorithms, Database Systems, Web Programming, Data Wrangling and Visualization*

## RELEVANT EXPERIENCE

**Backend Engineer, Cledge,** *UW*                                    *March 2022 – Present*

- Integrated database and APIs for a college application AI consulting website using Mongo DB and Azure Cosmos DB.
- Designing and implementing backend of a college search tool using Azure Cognitive Search and TypeScript.

**Lead Software Engineer, Organization of Hua Classmates (OHCM),** *UW*                *December 2021 – Present*

- Leading a 12-people team to maintain a website for UW students to comment on courses they have taken.
- Improving user experience by designing and implementing personalized features including course collection, detailed course metrics, and courses recommendation.

**Software Engineer, Organization of Hua Classmates (OHCM),** *UW*            *October 2020 – December 2021*

- Designed and implemented back-end structure of UW courses search algorithm for OHCM website using Node.js and MySQL.
- Self-learned and applied React.js on constructing front-end structure of the search algorithm.
- Conducted usability testing for receiving feedbacks on the website from 6 users by assigning key pathways for them to accomplish and redesigned the website based on testing results.

**Data Engineer Intern, Microsoft** *via Pactera Technologies Inc, Remote*                *January – March 2021*

- Analyzed credit card transaction dataset with over 300 attributes and 10 million entries for anomaly detection and visualized sparsity of each attribute via matplotlib and seaborn.
- Built Machine Learning models for anomaly detection project from data encoding using Target Encoding and One-Hot Encoding to model training.

**Software Engineer Intern, Shanghai Jin Chi IT Development Co., Ltd,** *Remote*            *August – October 2020*

- Developed back-end data structures and implemented APIs with algorithms' improvements using Django REST framework.
- Partnered with a five-member team for developing music instrument management system with experience on team communication, working progress presentation, and API documentation.

## PROJECT AND RESEARCH

**Research Assistant, Direct Research Group at HCDE,** *UW*                *September 2021 – Present*

- Evaluating emotion classification for over 170 million entries of text data via qualitative coding and machine learning for building an emotion classifier.
- Developing visualizations for evaluating model performance and relationship across different emotion categories.