

Mia Yuan

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EDUCATION

UNIVERSITY OF PENNSYLVANIA | MASTERS OF COMPUTER AND INFORMATION TECHNOLOGY

01/2024 - Present

COURSEWORK: DATA STRUCTURES AND ALGORITHMS, DISCRETE MATHEMATICS, ETC.

UNIVERSITY OF ARIZONA | BACHELOR OF ARTS IN BUSINESS

- 2022

COURSEWORK: CALCULUS FOR ENGINEERING, MATH FOR BUSINESS ANALYSIS, BUSINESS STATISTICS

EXPERIENCE

Vanguard - Dallas, TX

Product Manager | 05/2023 - Present

- Launched Vanguard's first A/B tests on mobile, setting a new standard for feature validation; increased watchlist engagement by 25%.
- Worked with ML team to improve check deposit accuracy, boosting recognition success rate by 15% and contributing to a 48% YoY increase in deposits to \$13 billion.
- Leveraged analytics tools to enhance user insights, driving strategic product improvements and an 8.5% rise in customer satisfaction.
- Expert in Adobe Analytics, using data-driven insights to guide product enhancements and user satisfaction growth.

Cigna - Saint Louis, MO

Product Manager | 10/2020 - 05/2023

- Advised on mobile app strategy as SME, pushing app revenue towards \$1 billion in 2022.
- Used Adobe Analytics and Tableau to uncover insights, driving 40% YoY growth in user acquisition and payments.
- Introduced data-driven experimentations, boosting auto refill enrollment rate by 120% and adding \$3M in annual revenue.

Product Analyst | 12/2018 - 10/2020

- SME in web strategy and analytics, implemented pre-authorization and multi-factor authentication.
- Translated complex business issues into actionable digital strategies with iterative, measurable improvements.

PROJECTS

HOUSE PRICE MACHINE LEARNING PREDICTIONS

- Developed predictive models to estimate house prices, utilizing Linear Regression and Random Forest Regressor, with RMSE and R-squared as metrics. The RF model achieved higher accuracy and explanatory power, capturing 87% of price variance, and revealed grade, square footage, and location as top predictors.

JAVA RPN CALCULATOR

- Designed and implemented a Reverse Polish Notation (RPN) calculator in Java, supporting standard arithmetic operations and complex nested expressions.

SKILLS

Product management, Business analytics, Python, Scikit-learn, SQL, Java, HTML, CSS, JavaScript, Machine learning, Data science, Statistical Analysis, Exploratory data analysis, Data preprocessing, Model performance evaluation