

Anyao (Anya) Wang

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US Permanent Resident | EIT certified engineer | SM1 Scholar

Gritty and versatile problem analyzer and solver with three years of experience bidding, analyzing, designing and leading teams to win multiple million-dollar design-build private and public construction projects, **driving 22% profitability**. Current MSBA candidate at UCLA Anderson. English/Mandarin Bilingual with international expertise and perspective from studying and working in three countries.

EDUCATION

UCLA ANDERSON SCHOOL OF MANAGEMENT

Master of Science in Business Analytics (MSBA)

Los Angeles, CA

Expected December 2023

Machine Learning, Data Management, Prescriptive Models, Operations Analytics, Customer Analytics, Competitive Analytics

USC VITERBI SCHOOL OF ENGINEERING

Master of Science in Mechanical Engineering – 3.55 GPA

Los Angeles, CA

May 2019

Advanced Calculus for Financial Engineering, Probability, Economics, Technical Writing

THE PENNSYLVANIA STATE UNIVERSITY, COLLEGE OF ENGINEERING

Bachelor of Science in Mechanical Engineering – 3.64 GPA

University Park, PA

May 2017

Probability Theory, Statistics, Computer Science, Sociology, Photography, Theatre Studies, Film and Media, Fitness and Nutrition

TECHNICAL SKILLS

Languages: Python (Numpy, SciPy, Pandas, Matplotlib, Seaborn, Scikit-learn, PySpark, Tensorflow), SQL, R, MATLAB, HTML

Software: MySQL, Tableau, Jupyter, RStudio, AutoCAD, AutoBid, Revit, Solidworks, HyperWorks, Excel, Google Colab

Analytcs: Machine Learning, Statistical Modeling, Data Visualization, Time Series Analysis, A/B Testing

Certifications: MySQL for Data Analytics and Business Intelligence; Python for Data Science and Machine Learning Bootcamp

PROFESSIONAL EXPERIENCE

MURRAY COMPANY

Engineer/Estimator/Project Engineer

Rancho Dominguez, CA

July 2019 – June 2022

- Analyzed preliminary project documents, negotiated best prices of materials from suppliers, finalized cost of construction
- Generated **over \$100M revenue** building labor and design roadmaps to win multiple construction projects including Los Angeles International Airport T4, new Inglewood Stadium, Google Westside, and multiple hospitals, hotels, and condo developments
- Created **22% profits** by leading team to win design-build projects including LAX T0, T1 Renovation, Chargers Training Facility, Gaylord Pacific Parking, and multiple school medical buildings
- **Increased construction efficiency by 10%** by optimizing plumbing design and cost forecast to support project management
- Reduced **20%** labor hours by increasing collaboration between estimating and engineering teams

UNIVERSITY OF SOUTHERN CALIFORNIA

Research Analyst

Los Angeles, CA

January 2019 – May 2019

- Researched, analyzed 5 papers to reduce energy costs and reported insights using demand response technologies in water sectors

BERNARDS CONSTRUCTION

Estimating Intern

San Fernando, CA

May 2018 – August 2018

- Proposed **20%** cost reduction by analyzing construction plans required for 12 project cost estimates

F-TECH R&D NORTH AMERICA

Product Engineering Analyst

Troy, OH

May 2016 – August 2016

- Analyzed 7 Finite Element models on automobiles' skeleton stiffness and durability and compiled data for chassis designs
- Increased accuracy by **10%** through collecting and visualizing optimal measurements for 4 automotive suspension components
- Presented final findings and provided guidance on data navigation and approval required for production

CULTURE IMMERSIVE STUDENT ORGANIZATION

Lead Student Ambassador

University Park, PA

May 2016 – May 2017

- Coached orientation leaders, increased engagement among new students for smooth and positive transitions into university life

DATA ANALYTICS PROJECTS

Amazon Datathon 2022: Presented preliminary solutions using Candidate Retrieval and Ranking to predict similar products. Analyzed offline MAP metric and online testing through click through rates, purchase conversion and user engagement to evaluate new model

Humana Challenge 2022: Analyzed **881** features in large dataset using Machine Learning algorithms in Python to predict housing insecurity of people at **74%** accuracy rate and **99%** disparity score. Proposed solutions incorporating fairness in AI and ranked top **34**

Employees Database Analysis: Analyzed relationship among genders, departments, salaries, managers within the company every year using SQL. Presented 4 Charts and 1 Dashboard in Tableau, proving expertise in coding, data analysis and presentation