Xiaoyu Fu

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EDUCATION

San Jose State University   **San Jose, California**
BA Mathematics   **August/2020– Present; Graduating May/2023**
- Key Courses: Introduction to Abstract Mathematics and Proofs, Vector Calculus, Modern Geometry and Transformations, Abstract Algebra, Ord. Diff. Equations and Dynamical Systems, Applied Probability and Statistics, Mathematics & Statistics modeling.

De Anza College   **Cupertino, California**
90 credits in Computer Science   **September/2017-- June/2020**
- Key Courses: General study classes including beginning/ intermediate programming(C++) , Advanced Algorithm (C++), Introduction to Java programming, Intermediate problem solving in Java, Calculus, Linear Algebra, Discrete Math, Differential Equations

VIRTUAL EXPERIENCES

Boston Consulting Group
Forage.com
Data Science & Analytics   **July/ 2020**
- Cleaned data in Python by addressing missing values, removing duplicates, and converting data types.
- Conducted exploratory data analysis to show variable distribution and visualize selected parameters.
- Leveraged business contexts to perform feature engineering and create insightful prediction variables.
- Built a decision tree model by using Python to predict the probability of customer churn and test model performance.
- Turned analysis to actionable insights and recommended data driven strategies for business decisions.

JPMorgan Chase
Forage.com
Software Engineering   **June/ 2020**
- Fixed the broken client data feed in the repository by using Python and generated a Git patch file.
- Customized the typing files in the repository and implemented the Perspective open source code to create an automated real-time dashboard, successfully helping traders to view stock market performance and complete the trading strategy.

SCHOOL PROJECTS

Java Project - TicTacToe Game
De Anza College   **September/ 2018**
- Set up Eclipse and create a variable to store board size
- Created a Java class named TIC-TAC-TOE and use loops to write the main class
- After completing the main code, run the program without error. Players can against the computer until the game ends

Java Project - Loop Menu
De Anza College   **September/ 2019**
- Utilized Java switch-case to let users place orders and used Java loop to re-appear and allow next orders.
- Created necessary features to increase user experience such as search products and sort by attributes.
- Led the project team and revised works from other group members by fixing all bugs and errors.

SKILLS

- **Technical skills:** C, C++, Python, Java, SQL, Ability to use discrete dynamical systems, proportion relations, graph theory, and differential equations in solving mathematical models, Ability to set up mathematical models in analyzing applications in a variety of areas including business and economics, physical science and engineering.
- **Languages:** Mandarin, English
- **Interests:** Community Involvement, Motorsport, Swim, Music
- **Certifications**: The Complete SQL Bootcamp 2022: Go from Zero to Hero(Link: https://www.udemy.com/certificate/UC-c55b7596-b7b0-4f81-a749-c707375af9a9/)