Bing (Nina) Lin

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EDUCATION

University of California, Los Angeles **Los Angeles, CA**
B.S Mathematics of Computation GPA: 3.6 Expected Graduation: April 2021
Honors: Dean's Honors List

Cañada College **Redwood City, CA**
A.S Computer Science and Mathematics GPA: 3.85 August 2017 - June 2019
Honors: Dean's Honors List, Phi Theta Kappa (PTK)

Coursework: Data Structures, Algorithms and Complexity, Discrete Mathematics, Linear Algebra, Numerical Analysis, Network Analysis, Probability and Statistics, Artificial Intelligence, Computer Graphics, Machine Learning

SKILLS

Programming: C++, C, Java, Python, JavaScript, HTML, CSS
Framework and Tools: Git, React.js, Node.js, Express.js, Vue.js, MongoDB, SQL, Streamlit, Numpy, pandas, Matplotlib, Qt Creator, IntelliJ, Xcode, Jupyter Notebook

EXPERIENCE

Research Intern | **UCLA Department of Mathematics** **Los Angeles, CA** | March 2020 - June 2020
- Collaborated with three team members to evaluate network structures and the information ecosystem of Twitter with a labeled dataset of over 100k users from Kaggle
- Conducted community detection and visualized interactions with the Louvain Method, PageRank algorithm, and HITS algorithm using Python programming, NetworkX, and Gephi to identify the top influential groups
- Performed influence estimation on specific groups based on user behavior analysis and hashtag content analysis

Web Development Intern | **Chenyang Auto Trade Co. Ltd.** **Hebei, China** | June 2019 - August 2019
- Cooperated in a development team of four, responsible for UI functionality testing and front-end development
- Re-designed the portal of Chenyang Auto to provide better support of product searching and listing and achieve a more user-friendly website and that has increased the number of clicks by 25% over a month
- Restructured the ABOUT page with JavaScript, HTML, and CSS to improve consistency of client-side user interface
- Developed a WeChat mini program serving information on local inventory and sales of 20+ local retail dealerships

EPIC Leader & Tutor | **Cañada College STEM Center** **Redwood City, CA** | December 2018 - May 2019
- Directed weekly workshop series with other EPIC leaders on Python and Matlab programming in mathematics and engineering research for over 30 STEM-major students in a 3-month long technical Bootcamp
- Conducted exam review sessions on discrete mathematics and data structures in C++ for a group of 20 students with positive reinforcement strategies and enhance the overall academic performance

PROJECTS

Keeper | **Project Task Tracking App** September 2020 - Present
- Built a full-stack web app using React.js and Material-UI to help improve productivity with card-based task board
- Implemented a neat UI and UX to simplify the task management experience and achieve modernization
- Secured and persisted user data with MongoDB, allowing users to plan and manage responsibilities over time

Gold Miner | **Single Player Puzzle Game** January 2020 - March 2020
- Developed a desktop single-player puzzle game allowing users to perform gold-digging and mining actions with Qt
- Optimized code efficiency and cleanliness. Reduced game loading time by 12% through restructuring the scene transition framework to enhance the overall user experience
- Designed the item generating feature and reward system using Obj C++ to contribute a standardized, inheritable interface for all current and future character types

NYC Crash Event Analysis | **Dashboard Web App** January 2019 - April 2019
- Built a web page to analyze the distribution of motor vehicle collisions in NYC using Python and Streamlit
- Preprocessed dataset by data cleaning, categorical feature transformation, and feature correlation
- Analyzed feature importance of the data to identify top factors that influenced the results using pandas and Numpy
- Integrated with service platform and designed intractable visualizations for serving dynamic data using pydeck and plotly to prominent the accident hotspots as a reference for travel guides