Yue Huang (Alex)

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EDUCATION

Columbia University   New York, NY
M.S. in Computer Science   May 2023

Washington University in St. Louis   St. Louis, MO
B.S. in Computer Science, Second Major in Math   May 2021
- GPA: 3.99/4.00; Summa Cum Laude

WORK EXPERIENCE

Washington University in St. Louis   St. Louis, MO
Teaching Assistant   Aug 2019 - May 2021
- Graded weekly homework and answered Java/Python programming questions on Piazza
- Organized weekly office hours for courses Data Structures & Algorithms; Intro to Machine Learning

Engineering Tutor   Aug 2019 - May 2021
- Explained concepts—pointers, recursions, linkers—for courses Intro to CS, Object-Oriented Software Development
- Introduced Java Debugger, facilitating independent problem-solving

Worldhoists Co., Ltd.   Tianjin, China
Software Development Intern   Jul 2020 - Oct 2020
- Programmed Java apps that supplemented Worldhoists' Product Lifecycle Management (PLM) system
- Managed data with online databases (SQL) & property lists, facilitating users to search for relevant information via an interactive dashboard, and exporting data via an Excel form
- Composed detailed, illustrated user manuals on Worldhoists PLM usage

Balto Software Inc.   St. Louis, MO
Data Analyst Intern   Jun 2019 - Aug 2019
- Optimized Balto's customer success email system, creating new templates for weekly customer emails
- Analyzed past sales data on Salesforce and TopOpps, generating suggestions on future market targeting, leading to a significant increase (10%+) on lead generation
- Split and transcribed customer sales recordings to debug Balto's voice recognition system, achieving increased recognition sensitivity

TECHNICAL SKILLS

Programming Languages
- Java, C/C++, HTML/CSS, Python, MATLAB, R, MySQL, PHP, JavaScript, Objective C, Assembly
Selected Coursework
- Theory: Data Structures and Algorithms (Java), (Advanced) Analysis of Algorithms, Theory of Parallel Systems
- Software: Mobile Application Development (Swift), Rapid Prototype Development and Creative Programming (Web Apps), Object-Oriented Software Development (C++), Introduction to Systems Software (C & Assembly)
- Machine Learning: Introduction to Machine Learning (MATLAB), Introduction to AI (Python)

PROJECTS

Optiver Realized Volatility Prediction—Kaggle   Jun 2021 - Aug 2021
- Constructed a Light Gradient Boosting (LGB) model to process the order and trade dataset
- Conducted data cleaning, created new features and tuned parameters to improve performance on the LGB model, decreasing validation RMSPE loss by 1.5%

Multi-room Chat Server   Mar 2021
- Chatroom Server created with Node.JS, Socket.IO, JavaScript and HTML; chat and user data managed with MySQL
- Users can send messages, create/join rooms; creators can kick/ban other users; private rooms are password protected

Malloc Project   Jan 2021
- Wrote a dynamic storage allocator with C, implementing segregated free list, Nth fit and footer removal

iOS Movie Search App   Nov 2019
- A Swift App enabling movie search in TMDb database and trailer display, allows filtering by language/country/genre