

Yuxuan Ma

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WORK EXPERIENCE

Honor Device Co., Ltd.

Shanghai, China

General Software Engineer

Apr 2024 – Jan 2025

- Redesigned Android Framework screen transition logic, resolving display issues for 20+ widely-used apps on foldable devices.
- Enhanced multi-window functionality, significantly reducing crashes and layout errors in critical applications.
- Improved camera alignment in 30+ system applications in 90° state, ensuring 100% compliance with compatibility standards.

Columbia University

New York, NY

Research Assistant

Sep 2022 – Jan 2024

- Developed Python-based ETL pipelines (Selenium, Pandas) to scrape and clean over 160 academic journals, saving 100+ hours of manual effort.
- Built and maintained a daily Meta Ad Library scraper, enabling structured analysis of political ads from Fortune 500 companies.

Leishen Intelligent System Co., Ltd.

Shenzhen, China

Global System Engineer

Jan 2022 – Aug 2022

- Created Java automation tools to produce standardized CSV outputs, boosting data analysis efficiency by 30%.
- Developed comprehensive training materials for LiDAR technology, detailing core principles, workflows, and software integrations.

Huawei Technologies Co., Ltd.

Shanghai, China

Software Development Intern

Jun 2020 – Oct 2020

- Engineered LRU and DRRIP cache replacement policies, reducing simulation costs and optimizing memory hierarchy performance.
- Implemented task prioritization algorithms using Strict Priority and Weighted Round Robin schedulers, enhancing throughput and resource allocation.

PROJECTS

The Unfolding SPIRIT of Science: Evidence from P-Hacking in Academic Clinical Trials

New York, New York

Team Member

Jan 2024 – Dec 2024

- Leveraged Doc2Vec to analyze 880K+ clinical trial documents, quantifying compliance with SPIRIT 2013 guidelines to detect p-hacking risks.
- Conducted cosine similarity analysis between trial documentation and guideline embeddings, facilitating large-scale automated audits.

Exploring the Language of Malware

San Diego, CA

Team Lead

Sep 2020 – Mar 2021

- Increased malware detection accuracy to 94% using an optimized hybrid Node2Vec+HIN model, surpassing benchmarks by 6%.
- Reduced feature dimensionality from 3M to 12K through dynamic TF-IDF compression, maintaining model accuracy while significantly enhancing computational efficiency.

EDUCATION

Columbia University

New York, NY

M.A. in Quantitative Methods in the Social Sciences

Sep 2022 – Feb 2024

- Related Coursework:** Natural Language Processing (NLP), Advanced Machine Learning, Artificial Intelligence.

University of California, San Diego

San Diego, CA

B.S. in Data Science

Sep 2017 – June 2021

- Related Coursework:** Machine Learning Fundamentals, Algorithms, Systems for Scalable Analytics

SKILLS & INTERESTS

Programming: Java, Python, C++, JavaScript, HTML/CSS, SQL

Tools: Apache Spark, Selenium, Spring Boot, AWS, Jupyter Notebooks, Git

Interests: Lego, Jigsaw Puzzles, Model Building, Yoga, Pilates, Cooking