Yiyang Shao

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Education

Duke University Aug 2022 - May 2024
M.S. in Computer Science; GPA: 3.81
New York University Sep 2018 – May 2022
B.S. in Computer Science, Honors Mathematics; GPA: 3.85

Languages and Technologies

- **Languages**: Python, Javascript, Java, Swift, SQL
- **Technologies**: Git, React, Vue, Node, Cypress, Docker, Linux, REST, Pytorch, Pandas, Agile

Professional Experience

IXL | Software Development Engineer July 2024 – Now

- Enhanced and maintained robust audio and translation capabilities using **Java** and **React** for a high-traffic platform serving 15M+ users globally.
- Refactored audio and translation components to enhance modularity, scalability, and system simplicity, resulting in improved maintenance and faster integration of new features.

Zillow | Software Development Engineer Intern May 2023 – Aug 2023

- Built the final landing page of Zillow Home Loan, handling ~100,000 daily user visits with integrations of pricing, clickstream, and documentation services using **React** and **Python**.
- Boosted third-party leads by 25% by enhancing data security features, improving overall user trust in the home loan website.
- Contributed to an increase in market share by launching Zillow Home Loan services in New Jersey through full-stack development and seamless deployment.

IFlytek | Core Technology Researcher Intern May 2020 – Aug 2020

- Led the development of a high-resolution network, attaining state-of-the-art performance with a 45% MIoU on ADE20K for pixel-level image semantic segmentation tasks.
- Conducted extensive control experiments with neural networks including ACFnet, OCnet, and Efficientnet.

Selected Projects

GPT-4 based sentiment trading strategy Sep 2023 - Dec 2023

- Achieved a PnL of 11.46% and a Sharpe ratio of 0.728 by leading the design and implementation of a GPT-4 based trading strategy for market sentiment analysis.
- Enhanced model accuracy by 15% and improved scalability by innovating prompt engineering and analytical reasoning.

IOS app development for Gather Green Feb 2023 – May 2023

- Developed and launched an iOS shopping app using **SwiftUI**, creating a user-friendly marketplace interface and an efficient inventory management tool for administrators.
- Integrated Vapor for backend operations, employing **PostgreSQL** for robust data handling of product information, user data, and other key details.

Algorithm research on generalized sorting Mar 2021 – May 2022

- Innovated a generalized sorting algorithm based on the ELO-rating system, improving performance by 10% over existing algorithms through extensive practical applications.
- Developed and mathematically proved the optimality and efficiency of a tailored random sorting algorithm specifically for generalized sorting contexts.