

Jonathan He

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EDUCATION

University of Illinois at Urbana-Champaign

BS, Computer Science & Statistics, Minor in Econometrics

- GPA: 3.95/4.0

Champaign, IL

Aug 2019 – Dec 2022

EXPERIENCE

Amazon

New York, NY

Software Development Engineer Intern

May 2022 – Aug 2022

- Developed and deployed a robust solution for dynamic feature flag management, resulting in a substantial reduction of developer overhead by 48+ hours
- Automated configuration deployments for Amazon's Auth Server, enabling dynamic dial-up and leveraging of key features, leading to a more efficient development process
- Created performance monitoring dashboards, metrics, and alarms for AWS AppConfig in the prod environment, ensuring optimal performance and reliability

Amazon

Seattle, WA

Software Development Engineer Intern

May 2021 – Aug 2021

- Created and implemented a button that enables potential program applicants to check their eligibility for Amazon's selling partner services, improving the application process for potential sellers
- Developed a comment blurb feature with reproducible and consistent responses for a task management platform, streamlining communication and increasing efficiency between account managers and the operations team
- Automated the generation of over 100 comments, further reducing workload for account managers

PROJECTS

PsyKick

Oct 2021 - Dec 2021

- Developed a web platform for friendly multiplayer competition, allowing users to make predictions on football match results across different leagues using Flask and MySQL
- Implemented prediction functionality, league-wide and global leaderboard, and user authentication

Google Developer Student Clubs

Aug 2019 – May 2020

- Created a web application for professors and students to easily connect with research opportunities and talent, using natural language processing (NLP) and machine learning algorithms
- Integrated Algolia, a third-party search service, to enable full-text search for all research postings and profiles

Stock Market Prediction Project

Aug 2020 - Nov 2020

- Applied simple moving average, exponential moving average, and LSTM trading strategies on stock prices using TensorFlow
- Processed and visualized data to train, test, and normalize models, resulting in positive returns on 97% of Fortune 500 companies

Performance Report Enhancement

July 2020

- Extracted website favicons using Python and loaded them into Google BigQuery table
- Added company logos to performance reports to enhance visual appeal

Auto SMS Bot

November 2019

- Built an Android application for automated mass text sending in Java
- Designed a progress bar to inform users of message delivery status and improve user experience

SKILLS

Programming: Java, TypeScript, Python, C++, SQL, C, R, Swift

Technologies: AWS, React, Node.js, Google Cloud, Flask, Git, Unix

Language: Fluent in Mandarin and Cantonese, Social in Japanese