

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

Software Development Engineer Intern

New York, NY

May 2022 – Aug 2022

- Designed a resilient solution to dynamically manage feature flags which reduced developer overhead by 48+ hours
- Automated configuration deployments for Amazon's Auth Server allowing for the dial up and leveraging of key features
- Created dashboards, metrics and alarms to monitor the performance of AWS AppConfig in a prod environment

Amazon

Software Development Engineer Intern

Seattle, WA

May 2021 – Aug 2021

- Developed a button enabling potential program applicants to check eligibility for Amazon's selling partner services
- Introduced comment blurb feature with reproducible and consistent responses for a task management platform
- Streamlined communication between account managers and the operations team by auto-generating 100+ comments

PROJECTS

PsyKick

Oct 2021 - Dec 2021

- Built a web platform for friendly multi-player competition that enabled users to make predictions on football match results across different leagues
- Implemented prediction on football matches, league-wide and global leaderboard functionality using Flask, MySQL

Google Developer Student Clubs

Aug 2019 – May 2020

- Launched a web application for professors and students to easily connect with research opportunities and talent
- Devised a recommendation algorithm for student profiles and research postings using NLP parsing and scoring
- 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 the simple moving average, exponential moving average and LSTM trading strategies on stock prices
- Processed and visualized data to train, test and normalize models using TensorFlow
- Produced positive returns on 97% of Fortune 500 companies by optimizing model parameters

Performance Report Enhancement

July 2020

- Extracted favicons from millions of websites into Google BigQuery table using Python
- Shipped company logos onto performance report to enhance visual presentability

Auto SMS Bot

November 2019

- Built an Android application for automated mass text sending in Java
- Designed a progress bar for message delivery to inform 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