JONATHAN XUE

Chicago | (630) 677-8133 | jgxue2@illinois.edu | jonathanxue.com | github.com/Jonathan-Xue

EDUCATION

08/2018-05/2021 **Bachelor of Science, Computer Science** – University of Illinois at Urbana-Champaign

Bachelor of Science, Psychology – University of Illinois at Urbana-Champaign

• Dual Degree, GPA: 3.98

08/2021-05/2022 Master of Computer Science – University of Illinois at Urbana-Champaign

EXPERIENCE

• Real Time Trading Components Team

06/2020-08/2020 Amazon – Software Engineer Intern

- Developed an analytics tool analyzing AWS Lifecycle metrics from data logs with the Elastic Stack. Sample use cases include identifying the customers driving growth for a given workflow and generating aggregate statistics for each workflow for a given customer.
- Deployed the tool to multiple AWS regions and extended support for additional data sources.

06/2019-08/2019 Capital One – Software Engineer Intern

- Developed a web application to organize data labeling for machine learning solutions using React.js + Redux with a Python Flask server and PostgreSQL database. Datasets are uploaded, annotated, and exported in both raw (JSON) and parsed (CSV, TSV, CoNLL) formats for different training models.
- Designed and implemented a separate text annotation module optimized for performance and stability.

11/2018-05/2019 CME Group – Robotic Process Automation Intern

- Architected digital worker to automate employee termination/resignation processes. Tasks include disabling the employee account from the Active Directory, terminating VPN/Remote-Desktop access, disabling access to remote web tools and business applications, and removing the account from email and distribution lists.
- Parsed emails to retrieve necessary employee identification information with C# .NET

09/2018-12/2018 University of Illinois at Urbana Champaign – Research Assistant

- Developed two separate Maven plugins to analyze and accommodate test dependencies in regression testing algorithms, namely test prioritization, test parallelization, and test selection. Helps developers locate and verify false positives/negatives.
- Work is 7.1% faster at producing reliable outcomes than algorithms which assume test independence.

SELECTED PROJECTS

CourseAssign

https://jonathanxue.com/CourseAssign

- Developed a web application that analyzes teaching assignment and grade distribution data of past Computer Science courses at UIUC and their faculty instructors to determine best-fit matches between courses and faculty.
- Calculated semantic similarity between a course's description and an instructor's research interests with spaCy by comparing multi-dimensional meaning representations of keywords.

RELEVANT COURSEWORK

SKILLS

Languages: C, C++, HTML/CSS, Go, Java, JavaScript, Python, R

Database and Client/Server Technologies: Express, Flask, Mongo, Node.js, SQL