MATTHEW TANG

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EDUCATION

University of Illinois Urbana-Champaign
Master of Science (MS) in Computer Science, September 2021 – May 2022, GPA: 3.81
Bachelor of Science (BS) in Statistics and Computer Science, September 2018 – May 2021
Coursework: Data Structures, Algorithms, Databases, Deep Learning, AI, Information Retrieval

EXPERIENCE

Amazon   **July 2022 – March 2023**
Software Development Engineer
- Full stack development on warehouse management system used by Amazon Fresh worldwide using Java/Javascript/Ruby/MySQL to add and fix features to improve associate efficiency.
- Designed and implemented required security migration of service called thousands of times every five minutes to AWS using CDK, Java Lambda, VPCs, and Route 53.
- Identified areas of improvement in the warehouse process to save time by collaborating with business and other teams to deliver desired business metrics onto dashboards.

Country Financial   **January 2021 – January 2022**
Software Engineer Intern
- Developed AI communications system to identify customers automatically to save time for associates using Azure, Java, APIs, and PostgreSQL to transcribe, store, and verify info.
- Developed backend REST API for a farm inventory tool, which helps farmers easily track their inventory for insurance purposes using Java, Spring, PostgreSQL, and connected it with the Angular frontend.
- Automated Robot Framework tests on AWS Device Farm mobile devices for time-saving. Used Python and modified YAML configurations to run existing tests on mobile.

Indiana University - Purdue University, Indianapolis   **June 2019 – August 2019**
National Science Foundation Research Experience for Undergraduates
- Tested variations of BERT, an NLP model, to traditional models, by classifying and annotating questions, then analyzing their precision, recall, and F1 score.
- Paper published to IEEE BIBM 2020: link

PROJECTS

Mechmania Staff (Infrastructure Team)
- Developed the game for a 24-hour AI hackathon in which participants would submit Ais.
- Created backend services to communicate between the game engine and our backend services and backup our game's Redis databases on an AWS S3 bucket.

SMapS Android App (Lyft - Best Transportation Hack at Mhacks 2019)
- Developed an Android app that helps people without data get directions by using SMS messages to connect with the Google Maps API using Android Studio/Java/Javascript.

SKILLS

AWS Certified Solutions Architect – Associate | Python | Java | JavaScript | Ruby | C++ | SQL | Azure | REST APIs | R | Machine Learning | NLP | TensorFlow | Docker | C# | HTML | CSS