

MATTHEW TANG

630-280-1536 | matttang7@gmail.com | <https://github.com/matttang7> | Irvine, CA | <https://www.linkedin.com/in/matthew-tang-swe/> | <https://matttang7.github.io/matttang-portfolio/>

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

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.

Job Database Web Application

- Designed and implemented a relational database structure in MySQL using data on job applicants' outcome and visa status with a front end built in React.

SKILLS

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