Sirui Wang

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EDUCATION

University of Illinois Urbana-Champaign   **Champaign, IL**
Master's degree in Computer Science   *December 2022*
- *Cumulative GPA*: 3.87/4.0
- *Selected Coursework*: Database Systems, Distributed System, Software Engineering and Testing, Computer Vision

University of Rochester   **Rochester, NY**
B.S. in Computer Science & B.A. in Mathematics   *May 2021*
- *Cumulative GPA*: 3.69/4.0, *with Highest Distinction in Computer Science*
- *Selected Coursework:* Computer Security, Computer Networks, Data Mining, Machine Learning, Algorithms

SKILLS

- *Programming Languages*: Java, Python, SQL, JavaScript, HTML, C, React, CSS
- *Software and Tools*: Git, Linux, MacOS, Maven, TeamCity, Hive, Oozie, Hadoop, GCP, Jira, QUnit, TeamCity

WORK EXPERIENCE

Mathworks
Software Engineer in Test   *Februrary 2023 – Now*
- Involved in API design process and built system and integration tests for MATLAB Test framework Team.
- Created a prototype plugin to merge ChatGPT in MATLAB editor for MATLAB code auto-generation.
- Design test strategy and pipeline for Data Warehouse team.

Yahoo!
Software Engineer Intern at Media Analytics Warehouse team   *June 2022 – August 2022*
- Built an internal automation tool for column addition to an hourly updated Apache pig script in **Python** that covered 90% of column addition scenarios and accelerated this process exponentially.
- Designed the input JSON configuration file and updated commented annotations for the pig script. Performed unit tests and quality assurance with full code coverage.

PROJECT EXPERIENCE

Flaky Test Fixing (Java, Maven)   *Fall 2022*
- Project for **Software Engineering** class. Built and tested Apache NiFi by **Maven**. Utilized **NonDex** tool developed by UIUC testing research team to detect flaky tests under nifi-nar-bundles module.
- Fixed flaky tests by modifying unit test code in **Java** and raised a formal pull request approved by course faculty.

Face2Emoji (Python)   *Spring 2022*
- Project for **Computer Vision** class. Built an emotion classifier in **Python** to detect human facial expressions in an image and replaced faces with corresponding emojis that align faces' orientations. Trained the model by AffectNet dataset.

Matrix, a Movie Database Website (MySQL, GCP, React, JavaScript, Python)   *Fall 2021*
- Course project for **Database Systems** class. Designed and created **SQL** tables and attributes by using **MySQL** and deployed the SQL data on **Google Cloud Platform**, using IMDB public datasets.
- Implemented frontend functions and constructed UI components for user creation, login, deletion, etc. using **JavaScript**, **React**, and **React Bootstrap**.
- Implemented backend interfaces for movie rating and list addition in **Python** based on **Flask** framework.

Lane Detection and Following for an Autonomous Vehicle (Python, ROS)   *Fall 2021*
- Course project for **Autonomous Driving** class. Participated in a team of three to implement camera-based Hough line detection for an autonomous vehicle and utilized given PID control program to accomplish the lane following functionality, using **Python** based on **ROS** framework.