

Yongchen Qian

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EDUCATION

Carnegie Mellon University

- Master of Science in Software Engineering

Mountain View, CA

Aug 2023 – Dec 2024

Emory University

- Bachelor of Science in Computer Science, Minor in Applied Mathematics
- Overall GPA: 3.80/4.0

Atlanta, GA

Aug 2019 – May 2023

WORK EXPERIENCES

The Inclusive Brand Project

Emory University Goizueta Business School paid project (Data Scientist)

Atlanta, GA

Aug 2022 – Feb 2023

- Crawled around 900,000 images and videos from Instagram and Facebook posts.
- Generated datasets incorporating OpenCV, TensorFlow and ImageAI to measure representation, biases, and stereotypes from the top 100 brands across industry sectors within the past ten years.

Teki Drive Inc

A startup project management platform (<https://teki-drive.com>) (Program Manager)

Atlanta, GA (remote)

Jun 2023 – Sep 2023

- Piloted a development team of three to the launch of the startup focused on providing platform aiming to automate coding tasks, optimize project management, and foster successful project advancement.
- Leveraged Flask as the backend framework and employed JavaScript, HTML, and CSS for the frontend to craft a responsive website platform. Connected to Firebase for providing persistent user data storage.
- Managed server deployment on Google Cloud virtual machine deployed via Gunicorn and Nginx with SSL/TLS security.

RESEARCH EXPERIENCES

MUG: a Multimodal Classification Dataset on Structured Tables with Textual and Visual Fields

Mentored by Dr. Carl Yang from Emory University

Atlanta, GA

Aug 2022 – May 2023

- Created comprehensive datasets focused on game industries for automated machine learning multimodal classification setting.
- Generated ten sets of benchmark results adopting single-modality models: GBM, MLP, RoBERTa, Electra, Vit and SWIN, as well as utilizing multi-modality models leveraging AutoGluon and AutoMM.
- Completed the paper and is under review by EMNLP 2023.

Enhanced Learning & Instructional Technologies at Emory: Cheat Detection

Mentored by Dr. Davide Fossati from Emory University

Atlanta, GA

Jan 2022 – Jun 2022

- Leveraged OpenCV for real-time camera input detection and analysis in both Java and Python environments.
- Implemented the feature described above with QTest (Emory CS testing system).
- Designed and implemented Java program with OpenCV library that detects faces and alerts the user if a face is absent from camera input.

Big Data Mining and Analyzing Technologies

Mentored by Dr. Fan Zhang from MIT

Atlanta, GA (remote)

Jul 2021 – Sep 2021

- Acquired knowledge on utilization of containerization technology Docker and its management tools: Kubernetes and HELM.
- Deployed web applications linked with MySQL database that recorded IP address and time for each access via Kubernetes.
- Acquired knowledge of Kubernetes management toll operator and Operator Lifecycle Management

PROJECTS

2022 KDD Web Development

Oct 2021 – Aug 2022

- Worked in a 5-person group, played a pivotal role for designing the frontend of 2022 KDD website using JavaScript, HTML, and CSS. The website link: <https://kdd.org/kdd2022/>

Integrated Poker Platform: Emory University CS370 Project

Jan 2022 – May 2022

- Worked as the scrum master and led a scrum team of seven to create an online game functioning as an integrated comprehensive platform employing Unity 3D. Functioned in both single-player and multiplayer modes.

TECHNICAL SKILLS

Languages: Python, Java, C, PHP, HTML, JavaScript, C#

Developer Tools: MATLAB, Stata, Unity Engine, Docker, Kubernetes

Databases: MongoDB, PostgreSQL, MySQL

Frameworks: Node.js, Flask

ADDITIONAL INFORMATION

Languages: Chinese (native)

Interests: Soccer, PC Building, Work out