

# Jizhou (Colin) Tang

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Williamsburg, VA

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Personal Website: [ctlandu.github.io](https://ctlandu.github.io)

## Education

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William & Mary, Williamsburg, VA

May 2025

Bachelor of Science in **Computer Science**

The Chinese University of Hong Kong (CUHK), Shenzhen

October 2020 – May 2022

## Technical Experience

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**Backend Development | Shanghai Automotive Industry Corporation (SAIC)**

May 2023 – Aug 2023

- Engaged in maintaining MySQL and Redis databases for the Fleet Management System across three maritime ports using Docker container technology.
- Implemented MySQL master-slave and master-master setups using docker-compose to establish enterprise-level disaster recovery backups and put them on the server for practical production purposes.
- Drafted two Bash scripts on Ubuntu. These scripts were designed to achieve both scheduled regular backups for the MySQL database and the functionality to revert to specific versions in case of issues. Acquired proficiency in utilizing both binlog incremental backups and mysqldump full backups, which are the built-in backup methods provided by MySQL.

**On-campus Research on Operational Management**

January 2023 – Present

- Research on the impact of strict 3-month lockdown in Shanghai, China early 2022 on residents' daily lives, medical and food needs, and other implications.
- Collect and clean a set of over 10,000+ data from a nongovernmental help request online form using Python packages pandas, csv, BeautifulSoup.
- Utilize the cleaned data to create 7 graphs for the use of descriptive analysis using Python.
- Co-author publication proposal with Prof. Yuan on the research.

**Website Development**

May 2022 – Present

- Write a technical proposal on developing a website for students to rate their instructors at Chinese universities.
- Surveyed peers to research the feasibility of website commercialization.
- Draft the schemas, attributes, and relational dependencies of the database of the website.
- Initialize the sample MySQL codes to build and manipulate the data.
- Utilize Python Django to build up the website structure; design the layout of webpages using HTML, CSS and JavaScript.

## Additional Experience

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**Peer Mental Health Counselor**

February 2021 – May 2022

CUHK Student Health and Counselling Center

- Meet 1:1 with students who feel down, stressed or are experiencing other mental health issues weekly.
- Communicate with clients and provide resources to help them relieve stress and depression.
- Answer incoming calls at the Student Health and Counselling Center at night.
- Provide immediate mental health care and report emergency cases to the school's professional psychological doctor.

## Skills

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- Tech Stack: Python, Java, C++, C, Bash, JavaScript, Linux, Docker, Django, MySQL, Redis, Git
- Essential CS Courses Taken: Algorithm, Computer Org, Database System, Machine Learning
- Other Interests: Photography, Video Creation, Gym