

Jizhou (Colin) Tang

Williamsburg, VA

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Education

The College of William & Mary, Williamsburg, Virginia

May 2025

B.S in **Computer Science**, minor in **Arts & Art History**

Technical Skills

Programming Languages: Python, JavaScript, Java, R, C++

Web Technologies: React.js, Node.js, Python Django, Flask, HTML, CSS, Bootstrap

Databases: MySQL, PostgreSQL, Redis

Tools & Platform: Docker, Git, Linux, Ubuntu, Jira, Slack, AWS, Microsoft Office

PROFESSIONAL EXPERIENCES

Department of General Services (DGS)

Richmond, VA

Web Design Intern

Jun 2024 – Aug 2024

- Designed and implemented intuitive **UI/UX** enhancements for the Division of Consolidated Laboratory Service (DCLS) of Virginia.
- Deployed a **Website Management System** enabling daily content updates based on laboratory requests, executing over 300 updates approved by senior management.
- Optimized and maintained the organization's **MySQL** content database, saving a 33% reduction in cloud disk space usage and significantly improving system read/write speeds.
- Facilitated effective communication with colleagues using **Microsoft Office and Teams**, bridging cultural differences as a minority foreign team member.

Shanghai Automotive Industry Corp., Ltd (SAIC Motor)

Shanghai, China

Software Development Intern

May 2023 – Aug 2023

- Developed backend systems using **Java** within a 20-member team, delivering 3 **client-specific** projects.
- Leveraged **Git, Jira, Slack, and AWS** to streamline workflows and enhance team productivity.
- Implemented **MySQL** and **Redis** master-slave and master-master database setups in **Docker**.
- Created **Bash** scripts on **Ubuntu** for regular MySQL database backups and project version control using binlog incremental and mysqldump full backups, deployed on client servers.

PROJECTS & RESEARCH

“Trade for Portfolio”: A website for amateur photographers & models

Williamsburg, VA

Full-stack Web Developer

May 2024 – Present

- Authored a technical proposal for developing a website helping amateur photographers and models to “trade for portfolio” and match based on their experiences, expectations, locations, etc.
- Designed database schemas, attributes, and relational dependencies for the website. Initialize the sample **MySQL** codes to build and manipulate the data.
- Built the website structure using Python **Django** and designed webpages with **JavaScript, HTML, and CSS**. Gained experience in front-end web technologies such as **React.js**

“Interpretable Routing in Disaster Response Management” Research

Williamsburg, VA

Research Assistant, William & Mary

Jan 2023 – Feb 2024

Undergraduate Research at William & Mary. Project link: <https://www.yutingyuan.net/zero-covid-policy>

- Conducted research on the impact of a strict 3-month lockdown in Shanghai, China, in early 2022, analyzing residents' daily lives, medical and food needs.
- Scraped and cleaned over 10,000 data entries from a nongovernmental help request form using **Python** modules (**NumPy, Pandas, matplotlib, BeautifulSoup, csv**).
- Modeled optimal routes for resource allocation using both **Python** and **R**.
- Created and presented 7 descriptive **analysis graphs**, showcasing findings on the project website.