

Jizhou (Colin) Tang

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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, Node.js, Python Django, Flask, HTML, CSS, Bootstrap

Databases: MySQL, PostgreSQL, Redis

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

Technical Experiences

Web Developer Intern | Virginia Department of General Services (DGS)

Jun 2024 – Aug 2024

- Designed and implemented intuitive UI/UX enhancements for the Division of Consolidated Laboratory Service of Virginia, collaborating closely with the informatics team to ensure user-friendly interfaces.
- Developed automated scripts to facilitate large-scale document modifications, ensuring compliance with the Americans with Disabilities Act of 1990 across 100+ files.
- 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.

Web Developer | "Trade for Portfolio" Matching Website

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.
- Conducted feasibility research on website commercialization through peer surveys.
- 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.
- Emphasized UI/UX design principles to create an intuitive and user-friendly interface.

Software Development Intern | SAIC Motor, Shanghai, China

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 for disaster recovery, deployed on client servers.
- Created Bash scripts on Ubuntu for regular MySQL database backups and project version control using binlog incremental and mysqldump full backups, deployed on servers.

Research Assistant | "Interpretable Routing in Disaster Response Management"

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 (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.