COLIN TANG

+1 (757) 332-3947 | jizhoutang@outlook.com | Williamsburg, VA, USA | LinkedIn | Portfolio

EDUCATION

The College of William & Mary   **September 2022 - May 2025**
Bachelor's, Computer Science   *GPA: 3.8*

PROFESSIONAL EXPERIENCE

PhotoBuddy: A Web App Connecting Photographers & Models   **Williamsburg, VA, USA**
Founder & Full Stack Developer   *June 2024 - Present*
- Developed a responsive user interface with React.js, Tailwind CSS, and JavaScript for a seamless cross-device experience.
- Built a scalable backend using Node.js, Express, and MongoDB to optimize data retrieval and secure database operations.
- Deployed the platform using Docker and managed cloud hosting on Render, ensuring high availability and performance.
- Integrated CI/CD pipelines to streamline updates and maintain smooth operation in the production environment.
- Project Link: https://photobuddy-frontend.onrender.com

Virginia Department of General Services   **Richmond, VA, USA**
Web Developer Intern   *June 2024 - August 2024*
- Enhanced UI/UX for DGS with Figma, improving user interaction and workflow efficiency.
- Deployed a Website Management System supporting 300+ daily content updates approved by senior management.
- Optimized MySQL database, reducing cloud disk usage by 33% and boosting performance.
- Presented project to 30+ colleagues, answering technical and non-technical questions from the Director and team.

SAIC Motor   **Shanghai, China**
Software Development Intern   *May 2023 - August 2023*
- Developed backend systems in Java with a 20-member team, delivering 3 client-specific projects.
- Streamlined workflows using Git, Jira, Slack, and AWS to enhance team productivity.
- Implemented MySQL and Redis master-slave and master-master database setups in Docker.
- Created Bash scripts for MySQL backups and version control, deployed via binlog and mysqldump on client servers.

SCHOOL PROJECTS

"Interpretable Routing in Disaster Response Management" Research   **Williamsburg, VA, USA**
Research Assistant @ Data Science Department   *January 2023 - February 2024*
- Researched the impact of a 3-month lockdown in Shanghai, analyzing daily lives, medical, and food needs.
- Scraped and cleaned 10,000+ data entries from a help request form using Python (NumPy, Pandas, BeautifulSoup).
- Modeled optimal resource allocation routes using Python and R.
- Created and presented 7 analysis graphs, showcasing findings on the project website.
- *Link to project*

Connect-N Game: A Java-based Graphical Strategy Game   **Williamsburg, VA, USA**
Developer & Team Lead   *January 2024 - May 2024*
- Developed a GUI for the Connect-N game in Java using the Model-View-Controller (MVC) architecture.
- Led a team through Agile sprints, delivering features incrementally.
- Utilized JUnit testing to ensure core functionality and code reliability throughout the project.

CERTIFICATIONS

Issued by freeCodeCamp.org: 1. JavaScript Algorithms and Data Structures 2. Front End Development Libraries 3. Back End Development and APIs
Issued by Postman API: 1. Postman API Fundamentals Student Expert

SKILLS

Skills: Python, JavaScript, Node.js, MongoDB, React.js, Docker, TailwindCSS, REST APIs, MySQL, NoSQL, Bash, Django, PostgreSQL, SQL, HTML/CSS, Linux/Unix, Redis, JIRA, Express.js, AWS, Java, C/C++, C#, Git, Linux, Figma, Leadership, Team Collaboration, Project Management, System Design, NumPy, BeautifulSoup, Web Development, Flask, Operations Research