COLIN TANG

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EDUCATION

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

SKILLS

Languages: Python, JavaScript, TypeScript, Java, C/C++, C#, NoSQL, SQL, HTML/CSS, Dart
Frameworks & Libraries: React.js, Vite, TailwindCSS, Node.js, Next.js, Django, Express, Flask, Flutter
Databases: MongoDB, PostgreSQL, MySQL, Redis, Firebase, Supabase
Tools & Platforms: Docker, RESTful API, AWS, Git, JIRA, Bash, Figma, Linux, NumPy, BeautifulSoup, Heroku, Vercel

PROFESSIONAL EXPERIENCE

PhotoBuddies: A Web App Connecting Photographers & Models   Williamsburg, VA, USA
Founder & Full Stack Developer   *June 2024 - Present*
- Developed the initial concept for PhotoBuddy, focusing on connecting photographers and models to facilitate collaboration and portfolio building.
- Built a responsive user interface with React.js and Tailwind CSS, creating over 10 interactive pages for a seamless user experience across devices.
- Designed and implemented a scalable backend using Node.js, Express, and MongoDB, establishing the database schema and business logic for efficient data management and retrieval.
- Deployed the App via Docker on Render, ensured 99.9% availability and stable performance under various traffic loads.
- Implemented Docker Image CI/CD pipelines, reducing update times from 5 minutes to 1 click through automated testing and continuous deployment.
- Leveraged Git, Jira, and Slack to manage project workflows and foster cross-functional collaboration within a team of 5.
- Project Link: https://www.photobuddies.org

Virginia Department of General Services   Richmond, VA, USA
Web Developer Intern   *June 2024 - August 2024*
- Increased user traffic and retention by 80% through Figma-driven designs and frontend optimization by collaborating with designers to enhance UI/UX.
- Deployed a Website Management System supporting 300+ daily content updates approved by senior leadership.
- Optimized MySQL database by restructuring schema and reducing TTL, cutting cloud disk usage by 33% and improving query 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.
- Collaborated cross-functionally to streamline workflows using Git, Jira, Slack, and AWS, enhancing team productivity by integrating communication, project management, and version control systems.
- Resolved high query latency by integrating MySQL and Redis caching, improving query efficiency by 40%.
- Created 10+ Bash scripts for automated database backups and version control, deployed via binlog and mysqldump on client servers.

RESEARCH EXPERIENCE

"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. Modeled optimal resource allocation routes using Python and R.
- Scraped and cleaned 10,000+ data entries from a help request form using Python (NumPy, Pandas, BeautifulSoup).
- Created and presented 7 interactive analysis graphs showcasing optimal resource routes, presented to 10+ faculty and peers in a departmental seminar.
- *Link to project*