

COLIN TANG

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EDUCATION

College of William and Mary <i>Master's, Computational Operations Research</i>	September 2025 - May 2027
• Awarded full tuition waiver and Teaching Assistantship	

College of William and Mary <i>Bachelor's, Computer Science</i>	September 2022 - May 2025
	<i>GPA: 3.62</i>

PROFESSIONAL EXPERIENCE

Waveform.ai <i>Software Engineer Intern</i>	Williamsburg, VA, USA <i>December 2024 - March 2025</i>
• Developed a high-performance web application, reaching audience of over 5,000 in college.	
• Delivered over 30 design mockups and API documentations for senior management review.	
• Website: https://waveformai.wm.edu	
Virginia Department of General Services <i>Software Engineer Intern</i>	Richmond, VA, USA <i>June 2024 - August 2024</i>
• Led UI/UX redesign, increasing daily website traffic by 180%.	
• Implemented accessibility and responsive design updates across 80+ webpages, ensuring compliance with government standards.	
• Optimized website performance and content management system, supporting 300+ daily updates.	
• Presented project results to stakeholders, later used as a model by 10+ other state government agencies.	
SAIC Motor <i>Software Engineer Intern</i>	Shanghai, China <i>May 2023 - August 2023</i>
• Developed and maintained backend services in Java, contributing to 3 client-specific projects.	
• Integrated MySQL and Redis caching, reducing query latency by 40% and improving system scalability.	
• Automated database backup and deployment processes using Bash scripting, reducing manual workload by 90%.	

PROJECTS & OUTSIDE EXPERIENCE

Favly - A Dating App Assistant <i>Founder & Full-Stack Developer</i>	<i>October 2025 - Present</i>
• Launched a platform for personalized media curation across 6 categories, attracting 500+ active users within the first month.	
• Produced 20+ TikTok promotional videos, reaching over 10,000 viewers and boosting product visibility.	
• Deployed mobile-responsive application with drag-and-drop profile customization, enhancing user experience.	
• Link to project	
TLDR Tech Newsletter (Bilingual) <i>Founder & Full-Stack Developer</i>	Remote <i>November 2024 - Present</i>
• Built a bilingual newsletter platform with Vue.js and Flask, integrating Mailgun to automate daily email delivery to users.	
• Developed a content processing pipeline using Python and ChatGPT API, enabling real-time multilingual translation.	
• Implemented caching and database optimizations, improving response time by 90%.	
• Link to project	

SKILLS

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