

# COLIN TANG

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## EDUCATION

### College of William and Mary

Master's, Computational Operations Research

- Awarded full tuition waiver and Teaching Assistantship

September 2025 - May 2027

### College of William and Mary

Bachelor's, Computer Science

September 2022 - May 2025

GPA: 3.62

## PROFESSIONAL EXPERIENCE

### Waveform.ai

Software Engineer Intern

- 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>

Williamsburg, VA, USA

December 2024 - March 2025

### Virginia Department of General Services

Software Engineer Intern

- 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.

Richmond, VA, USA

June 2024 - August 2024

### SAIC Motor

Software Engineer Intern

- 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%.

Shanghai, China

May 2023 - August 2023

## PROJECTS & OUTSIDE EXPERIENCE

### Favly - A Dating App Assistant

Founder & Full-Stack Developer

- 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](#)

October 2025 - Present

### TLDR Tech Newsletter (Bilingual)

Founder & Full-Stack Developer

- 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](#)

Remote

November 2024 - Present

## 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