

COLIN TANG

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EDUCATION

The College of William & Mary
Bachelor's, Computer Science

September 2022 - May 2025
GPA: 3.62

SKILLS

Languages: Python, JavaScript, TypeScript, Java, C/C++, C#, NoSQL, SQL, HTML/CSS, Dart

Frameworks & Libraries: React.js, Vue.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

Waveform.ai

Student Web Developer

Williamsburg, VA, USA

December 2024 - Present

- Developed a dynamic, responsive web application using Next.js, React, and Tailwind CSS, featuring interactive animations, waveform visualizations, and user interface components.
- Built a robust backend system with PostgreSQL and Node.js/Express.js, implementing RESTful APIs, WebSocket integration, and an event management system.
- Integrated real-time audio streaming and visualization using the WebAudio API, optimizing performance for minimal latency and efficient resource management.
- Delivered a fully functional web application, including design mockups, source code, API documentation, and deployment guidelines.

Virginia Department of General Services

Web Developer Intern

Richmond, VA, USA

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

Software Development Intern

Shanghai, China

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.

PROJECTS

TLDR Tech Newsletter (Bilingual)

Full Stack Developer

Remote

November 2024 - Present

- Designed and implemented a Vue.js frontend and Flask backend to deliver daily tech newsletters automatically in both English and Chinese, enhancing accessibility for a broader audience.
- Use Python to automatically scrape raw TLDR newsletter content daily, call the DeepL translation model, enrich the content by mapping appropriate emojis, and present it bilingually.
- Employed MongoDB for efficient storage and retrieval of newsletter data, ensuring scalability and performance, while implementing caching strategies to reduce latency.
- [Link to project](#)