TINGXUAN WU

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EDUCATION

University of California-Riverside (UCR)   *Riverside, CA*
M.S. in Computer Science   September 2025 – June 2026 (Expected)
B.S. in Computer Science   September 2022 – June 2025
- **Overall GPA: 3.98/4.0** (Summa Cum Laude (B.S.))
- **Relevant Coursework**: Web Development, Artificial Intelligence, Operating Systems, Concurrent Programming & Parallel Systems, Information Retrieval, Advanced Algorithms
- **Awards**: CitrusHack 2025 (2nd Place Overall)

EXPERIENCE

Fanalyze   *Remote, San Francisco, CA*
Software Engineering Intern   July 2025 – September 2025
- Drove full-stack product life-cycle of React Native mobile app, deploying and launching on Apple/Google Play Store
- Provisioned containerized Python/Flask backend API using Docker and Terraform on AWS, reducing manual setup by 70%
- Developed scalable API by implementing parallel processing with `asyncio` and Redis layer for caching/rate-limiting
- Managed scalable frontend states with Zustand, implementing user monetization features using RevenueCat SDK
- Established comprehensive testing framework (Jest and Pytest) to ensure high-quality code and rapid feature iteration

Cutie Hack   *Riverside, CA*
Software Engineering Lead   June 2025 – November 2025
- Led full-stack development for 200+ attendee hackathon platform, managing cross-platform compatibility and deployment
- Achieved 99.9% uptime for participant login and check-in during peak event traffic by resolving critical production bugs
- Spearheaded development of LLM-powered Discord bot to provide real-time support for attendees, reducing team workload
- Engineered production-ready RAG pipeline using Pinecone to optimize token usage, reducing context size by over 70%

Association for Computing Machinery (ACM)   *Riverside, CA*
Full-Stack Project Lead   October 2024 – Present
- Led and conducted code reviews for 20+ developers in an Agile workflow to develop and deploy 3+ Next.js websites
- Collaborated with 5+ designers/clients to scope project requirements, translating Figma mockups to technical tickets
- Established CI/CD pipelines with GitHub Actions to automate testing and deployment to GitHub Pages

UCR Computer Science   *Riverside, CA*
Undergraduate Learning Assistant   October 2024 – August 2025
- Mentored 50+ students on complex C++ and Python data structures, algorithms, and debugging techniques
- Partnered with professors and TAs to identify and resolve recurring student challenges from weekly lab sessions

PROJECTS

🔗 **GarboGotchi: Gamified Desktop App** | *React.js, Electron, TensorFlow.js, Arduino*   🐙 /tingtingtingtin/garbogotchi
- Secured 2nd Place at CitrusHack 2025 by developing full-stack desktop app featuring gamified pet interaction system
- Implemented frontend using React/Tailwind, integrating with TensorFlow.js model for real-time webcam classification
- Resolved compatibility issues within Electron to enable communication between ML model and Arduino hardware

🔗 **GenerosiTree: Full-stack Social App** | *Next.js, Firebase, TypeScript, Tailwind CSS*   🐙 /tingtingtingtin/generositree
- Developed eco-friendly platform for RoseHack 2024, implementing authentication and post data storage using Firebase
- Implemented social media frontend with Next.js/Tailwind, featuring interactive 3D models rendered with Three.js
- Engineered core donation workflow by integrating Digital Humani REST API, facilitating tree-planting contributions

🔗 **CloudPulse: Patient Data Dashboard** | *Grafana, InfluxDB, Docker, FastAPI*   🐙 /AnPhu-D/cloudpulse
- Designed user-facing patient dashboards using Grafana and InfluxDB, reducing data visualization latency by 40%
- Containerized full system with Docker to create scalable application ready for deployment on AWS cloud infrastructure
- Engineered data ingestion pipeline using WebSockets and FastAPI to stream and query time-series patient data

SKILLS

Languages: TypeScript, JavaScript, Python, C++, Java, SQL
Frontend: React, Vue, Next.js, React Native, Zustand, Jest, Tanstack Query
Backend: Node.js, Flask, Redis, PostgreSQL, Firebase, Pytest, WebSockets
Developer Tools: Linux, Git, Docker, CI/CD (GitHub Actions), AWS, Postman