

Min-Ting Tu

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EDUCATION

NC State University, Raleigh, NC

Expected May 2026

Master of Computer Science

GPA: 3.81/4.0

Coursework: Algorithms, Database Management, Software Engineering, Software Security, DevOps

WORK EXPERIENCE

Co-Founder/CTO, Taiwan Impact Platform for Culture, Taipei, Taiwan

May.2025 – Now

Technical

- Developed a full-stack cultural heritage platform using React and Next.js, implementing server-side rendering (SSR) and API routes to deliver exhibitions, events, long-form articles, and multimedia galleries with optimized performance and SEO.
- Built an interactive browser-based 3D exhibition experience by embedding Unity WebGL builds into React components, enabling immersive cultural storytelling directly within the web application.

Startup Business & Leadership

- Led the entire software development lifecycle (SDLC) from concept to deployment, including requirement analysis, system architecture design, implementation, testing, iteration, and production release.
- Architected the platform's front-end, back-end, and data layer from scratch, selecting appropriate technologies and languages with consideration for scalability, maintainability, and performance.

Management Information System Intern, YS-infoware, Taoyuan, Taiwan

Jan.2024 – June.2024

- Provided independent on-site support for a government e-form approval system, executing production database updates and resolving client system issues during version upgrades.
- Utilized JavaScript combined with SQL to customize the appearance of e-forms, delivering the reports and functionalities requested by the client.
- Maintained company network servers, managed firewalls, monitored and optimize six server hosts, and ensured the stable operation of 70 form systems.

Information Security Intern, Galaxy Software Services, Taipei, Taiwan

July 2022 – Dec. 2022

- Mentored a cohort of 30 interns, conducting code reviews and technical workshops that accelerated their onboarding process.
- Programmed automated testing codes by Selenium, Jenkins, and Python to meet clients' requirements.

Jan. 2021 – Jan. 2022

- Resolved 5+ client systems' security vulnerabilities detected by source code analysis software and identified the causes.
- Supported 10+ clients in troubleshooting security vulnerabilities in their systems.
- Built a library management system in one month using ASP.NET MVC framework.

PROJECT EXPERIENCE

DevOps CI/CD Pipeline for Web Application

- Automated the full release lifecycle by building a GitHub Actions pipeline that runs security checks with Snyk and provisions AWS infrastructure using Docker and Ansible for zero-touch deployments.
- Reduced deployment lead time by 80% (from 15 mins to 3 mins) by automating build, test, and release cycles via GitHub Actions.

Job Application System

- Developed and enhanced the project by integrating functionalities such as job editing, AI-driven questionnaires, and a chat room using React, JavaScript, and MongoDB.

SKILLS

- Languages:** JavaScript, TypeScript, Python, C#, C++, SQL, HTML/CSS, Linux
- Frontend:** React.js, Next.js, Tailwind CSS, Bootstrap, GSAP, WebGL, Ajax
- Backend & Database:** PostgreSQL, MongoDB, ASP.NET Core, Node.js
- DevOps & Cloud:** AWS (EC2, S3, CloudFront), Docker, GitHub Actions, Ansible, Jenkins, Vercel
- Tools & Testing:** Git, Selenium, Snyk, VS Code

ACHIEVEMENTS AND CERTIFICATE

- Getting Started with AWS Cloud Essentials**, AWS Training & Certification