

Gary Wu

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PROFESSIONAL SUMMARY

Software engineer with 3 years of experience leading cross-functional teams and managing Agile projects from planning to delivery. Skilled in stakeholder communication, risk mitigation, and driving complex initiatives on schedule. Pursuing a Master's in Computer Science to deepen expertise in large-scale systems and AI.

EDUCATION

The University of Texas at Austin, Austin, TX
Master of Science in Computer Science

August 2025 – May 2027

The University of Texas at Dallas, Richardson, TX
Bachelor of Science in Computer Science, GPA 3.95

August 2020 – May 2023

EXPERIENCE

Lockheed Martin, Fort Worth, TX
Backend Software Engineer

June 2023 – July 2025

- Led a cross-functional team of 12 engineers as Scrum Master, overseeing the full Agile software development lifecycle. Directed strategic sprint planning, resource allocation, and communication with stakeholders for requirements gathering
- Implemented velocity tracking and automated workflow metrics using Jira and Confluence to improve communication and transparency across teams. Increased team velocity by 20%, enhancing collaboration and ensuring alignment on project goals
- Managed sprint releases and coordinated cross-team dependencies to proactively resolve blockers, enabling seamless continuous integration and continuous delivery (CI/CD)
- Designed and implemented high-performance, real-time sensor fusion algorithms in C++ for F-35 mission systems, enhancing situational awareness, system responsiveness, and computational efficiency
- Decomposed a monolithic system into independently deployable microservices using domain-driven design and gRPC-based communication. Containerized services with Podman and orchestrated deployments using Kubernetes, improving scalability and reducing deployment time by 40%

Rocket Mortgage, Detroit, MI
Software Engineer Intern

May 2021 – August 2021, May 2022 – August 2022

- Engineered a robust RESTful API using the .NET framework, integrating AWS Step Functions, HireRight API, and multiple internal services to streamline the hiring and onboarding process, resulting in improved automation and a 30% reduction in manual HR tasks
- Implemented dynamic UI components in Angular, enhancing user experience by optimizing HTTP request handling and improving data rendering efficiency, which led to faster load times and a more responsive interface
- Led a summer internship project as a returning intern, gathering requirements, defining user stories, and managing task delegation to modernize legacy applications. Redesigned the UI to align with company rebranding, improving usability and overall user experience.

PROJECTS

ChatDB

- Developed full-stack app (Angular + .NET Core) to auto-generate MongoDB queries via OpenAI API
- Enabled real-time analytics with async pipelines, boosting decision speed for end-users

B+ Tree Implementation

- Built B+ Tree in C++ simulating database indexing to enable fast inserts, deletes, and range queries
- Improved query efficiency for ordered data in relational database scenarios

The University of Texas Attendance App

- Developed Android app using Java and XML to authenticate student IDs and verify enrollment via backend API
- Optimized asynchronous I/O and UI threads to ensure smooth attendance tracking during classes

SKILLS

Programming Languages: Java, C++, C#, Python, JavaScript, TypeScript, HTML, CSS

Tools & Technologies: Git, Docker, Podman, Kubernetes, Jenkins, GitHub Actions, Jira, Confluence

Testing: JUnit, GTest, NUnit, Cucumber, Postman (API testing)

Databases: SQL, MongoDB, Firebase (Firestore / Realtime Database)

Operating Systems: Linux, Windows