TONY CHAU

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EDUCATION

University of Illinois at Chicago   **Aug 2016 – Dec 2020**
Bachelor of Science in Computer Science, Cum Laude   *Chicago, IL*
Coursework: Software Engineering, Data Structures & Algorithms, Software Design, Systems Programming, Artificial Intelligence, Machine Learning, Databases

University of Texas at Austin   **Aug 2025 – Dec 2026**
Master of Science in Computer Science   *Austin, TX*

SKILLS

Programming Languages: Java, JavaScript, TypeScript, HTML, CSS, C/C++, Python, C#, SQL, NoSQL
Frameworks: React/Next.js, Node.js, Express.js, Angular, Spring Boot, Tailwind CSS
Tools & IDEs: Git, GitHub Actions, Visual Studio Code, IntelliJ IDEA, PowerShell, Vim, Microsoft Excel
Databases: MySQL, MongoDB, PostgreSQL

EXPERIENCE

Tata Consultancy Services   **July 2021 – July 2022**
Full Stack Engineer   *San Jose, CA*
- Assisted in the development and maintenance of web applications by integrating front-end frameworks (React, Angular) with back-end services (Node.js, Express), enhancing overall functionality
- Utilized Google's Cloudtop virtualization in a Linux environment to streamline code migration efforts
- Migrated a 10,000+ line codebase from JavaScript to TypeScript for Google, improving type safety and code maintainability
- Refined over 1,000 lines of code throughout different microservices to ensure functionality, executing automated tests to identify regressions and bugs that might be overlooked during mass migration
- Manually refactored code to significantly enhance time complexity and improve space efficiency, resulting in a more performant and resource-conscious application
- Verified the functionality of API endpoints following code migration to ensure seamless operation

Caregiver   **Aug 2022 – Sep 2024**
Chief Family Operations Officer   *Glendale Heights, IL*
- Managed all-day logistics, including scheduling, meal planning, and offering emotional support
- Streamlined household operations with innovative and agile time-management techniques

PROJECTS

RuneScape Bot Scripts | *Java*
- Developed and deployed multiple automation scripts for the medieval clicker game RuneScape, generating in-game currency and selling it for real-life profits, earning hundreds of dollars
- Leveraged the botting software's API to create and optimize Java-based scripts, automating repetitive in-game tasks with a focus on precision

Check-Off Calendar | *React, TypeScript, Tailwind CSS*
- Built a calendar web app with Next.js, allowing users to toggle dates for tracking events or tasks through an intuitive, user-friendly interface
- Leveraged Next.js for efficient server-side rendering, ensuring smooth performance and fast responsiveness

15 Puzzle Solver | *Java*
- Developed a Java program to solve the 15 Puzzle game using AI algorithms, employing both Manhattan distance and misplaced tiles heuristics for optimal pathfinding
- Implemented an efficient search strategy that minimizes moves, improving solution speed and accuracy

ACHIEVEMENTS & AWARDS

- Earned Dean's List honors multiple years at UIC for outstanding academic excellence