

TONY CHAU

Glendale Heights, IL | (630) 210-6131 | tchau6469@gmail.com | tonychau.lo

EDUCATION

University of Illinois at Chicago

Aug 2016 – Dec 2020

Bachelor of Science in Computer Science, GPA: 3.55/4.0, 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 – Present

Master of Science in Computer Science, GPA: 4.0/4.0 (Expected May 2027)

Austin, TX

Coursework: Deep Learning, Machine Learning

SKILLS

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

Frameworks: PyTorch, Jupyter, 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, Anaconda

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

Family Caretaker

Sep 2022 – July 2025

- Primary caregiver for family member, managing medical care, household operations, and daily living needs

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
- Midwest Fastener Association (MWFA) 2017 Scholarship Winner