Tony Chau

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Education

University of Illinois at Chicago   **Chicago, IL**

- B.S. in Computer Science GPA: 3.55
- Undergraduate Coursework: Software Engineering, Data Structures & Algorithms, Software Design, Systems Programming, Artificial Intelligence, Machine Learning, Databases

Employment

Tata Consultancy Services   **Software Engineer**   **July 2021 – July 2022**

- Performed codebase migration (JavaScript to TypeScript) for Google
- Ran in a Linux environment through Google's Cloudtop virtualization
- Manually edited the code to ensure proper functionality and performed automated testing
- Angular Programming with RESTful design principles

Projects

RuneScape Bot Scripts
https://github.com/tchau6469/RuneScape-Scripts

- Wrote game automation scripts for the medieval clicker game RuneScape for in-game currency
- Utilized the botting software's API to write scripts in Java
- Heavy use of event-driven programming

Tic-Tac-Toe
https://github.com/tchau6469/Tic-Tac-Toe

- Game written in Java, utilizes Java sockets to create a server-client connection
- The client plays against the A.I., which has three difficulty modes and chooses its move based on a Min/Max algorithm
- Utilized multi-threading to allow each client to be on their own thread and simultaneously update the server as well as getting updates from the server

15-Puzzle Solver
https://github.com/tchau6469/15-PUZZLE-IDA_STAR

- Java program that solved the 15 Puzzle game using AI algorithms
- Solves the puzzle using both Manhattan distance and misplaced tiles heuristics

Wearable Technology Collaboration

- Utilized flex sensors and accelerometers to create a yoga pants that keeps track of properly done squats
- Data transmitted was then analyzed in the Arduino environment and shown through our UI
- Microcontrollers and IDE's communicated using Serial communication

Languages and Technologies

- Languages: Java, JavaScript/TypeScript, HTML/CSS, SQL, C/C++
- Frameworks and Libraries: React/NextJs, Angular, Express.js, Spring Boot, JavaFX
- Tools: IntelliJ, Node.js, Visual Studio, PostgreSQL, Git/GitHub, Postman, Agile Methodology