Tuyet Minh Vu

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EDUCATION

University of Utah, John & Marcia Price College of Engineering Salt Lake City, UT
Bachelor of Science in Computer Science *Anticipated May 2028*
- **Related Coursework:** Software Practice, Data Structures & Algorithms, Computer Architecture, Discrete Math, Theory/Automata, Linear Algebra.

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, HTML/CSS, JavaScript, Arduino/C++
Technical Skills: Git/GitHub, SQL, Figma, Canva

PROJECTS

Campus Navigation | *Java* Nov 2024
- Built a campus wayfinding tool with building search and shortest path routing across digitized sidewalks and intersections.
- Created CSV datasets for buildings and graph edges; added a Java GUI with visual path overlay.

Smart Pet Feeder | *Arduino/C++, IoT* Apr 2025
- Designed and programmed an Arduino-based automated pet feeder using C++ to schedule and dispense meals via servo motor control.
- Integrated sensors to monitor feeder state and implemented real-time status feedback through an LED matrix display.
- Added manual override controls to allow user intervention, improving reliability and usability during edge cases.

Spreadsheet | *C#, HTML/CSS, Blazor* Oct 2025
- Designed and implemented a C# spreadsheet engine supporting formula parsing, cell dependency tracking, and automatic recalculation.
- Built cycle detection and robust error handling to prevent invalid formulas and circular references.
- Implemented JSON-based file serialization and deserialization for persistent save/load functionality.
- Developed a clean, responsive HTML/CSS user interface enabling intuitive cell editing and real-time updates.

Snake Game | *C#, Blazor, HTML/CSS, SQL* Nov 2025
- Developed a real-time multiplayer Snake client in C# using asynchronous TCP networking and event-driven architecture.
- Implemented a Blazor-based UI to render the game world, dynamically draw snakes, walls, and power-ups, and handle user input.
- Designed client-side game state synchronization by deserializing server updates and triggering UI redraws.
- Integrated SQL-backed endpoints to store and display historical game data and player statistics.

EXPERIENCE

Programming Club – SLCC Salt Lake City, UT
Officer *Sep 2024 – May 2025*
- Designed and moderated weekly coding challenges inspired by LeetCode-style problems, focusing on problem-solving, data structures, and algorithms for 200+ students.
- Created problem prompts, edge cases, test cases, and solution walk-throughs emphasizing time and space complexity analysis.
- Reviewed and evaluated submissions, provided written feedback, and facilitated peer discussions to improve algorithmic thinking and interview readiness.
- Planned and promoted workshops, coding competitions, and technical networking events using social media, posters, and classroom outreach.

Indochine Vietnamese Bistro Salt Lake City, UT
Server & Cashier *Jul 2023 – Present*
- Provided fast, friendly service during peaks; managed POS/cash, coordinated with kitchen, and resolved guest issues.