

Alex Tran

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EDUCATION

San Jose State University | San Jose, CA
Bachelor of Science in Computer Science

Aug 2023 - Jun 2027

SKILLS

- **Languages:** Java, Python, TypeScript, HTML, HTML5, CSS
- **Tools & Frameworks:** React, Streamlit, Git, GitHub, AWS S3, AI SDK, MQTT, Windows

PROJECTS

Light Cycles | TypeScript, Java, React, CSS, HTML5 Jul 2026 - Aug 2026

- Developed a real-time multiplayer arena game with room creation, joining, and synchronized gameplay.
- Implemented collision detection, player movement, light trails, and round-based win conditions.

Karaoke Generator | TypeScript, Java, React, CSS Jun 2026 - Aug 2026

- Built a browser-based audio application using MP3 decoding and the LRCLib API to retrieve and synchronize lyrics.
- Implemented real-time lyric timing and automated playback controls.

AI Note Taker | TypeScript, Java, React, AI SDK Mar 2026 - June 2026

- Built an AI-powered application that summarizes long-form text and YouTube videos into structured notes.
- Implemented context-aware question answering based on user-provided content.

Chess Simulator | TypeScript, Java, HTML, CSS Nov 2025 - Jan 2026

- Developed a web-based chess game implementing move validation, rule enforcement, and board state management.
- Built an interactive UI with legal move highlighting, capture tracking, and an AI opponent.

EXPERIENCE

Hydroficient IoT Cyber Defense Extern Jul 2026 - Present

Extern | Remote

- Analyzed MQTT-based IoT communication pipelines to identify vulnerabilities in device authentication, data transmission, and command controls.
- Implemented a Python-based anomaly detection prototype with Streamlit to monitor IoT device activity and flag suspicious behavior.
- Built security recommendations and incident response documentation addressing IoT system risks and critical infrastructure protection.

Assistant Planner Intern Jul 2026 - Present

Kamet Precision Machining & Assembly | Milpitas, CA

- Coordinate planning and scheduling for 30+ manufacturing jobs weekly, ensuring timely release of production documentation and materials.
- Manage and maintain ERP system records, documenting materials, machining operations, process requirements, and work instructions throughout production workflows.