# Nathan Tran

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## Education

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| ***B.S. Computer Science*** | **Expected Graduation: December 2027** |
| *San Jose State University* | *GPA: 4.0* |

- Organizations: Software and Computer Engineering Club (Event Planning & Public Relations Team Officer)
  - Coordinating events and promotions to boost club engagement.

## Experience

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| **Event Planning & Public Relations** | **San Jose, CA** |
| *SJSU Software & Computer Engineering Society* | *August 2024 - Present* |

- Organized high-impact tech events, increasing student engagement by 30%.
- Managed promotional campaigns on social media, boosting event attendance by 40%.
- Secured partnerships with tech companies to support and sponsor events.
- Hosted networking sessions and guest speakers to enhance professional development.
- Implemented feedback mechanisms to improve event quality and effectiveness.

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| **Swim Instructor** | **Milpitas, CA** |
| *Milpitas Star Aquatics and Fitness* | *August 2023 - Present* |

- Taught basic swimming and water safety skills to groups of 5 children through fun, interactive activities.
- Focused on floating, kicking, and introductory strokes, building confidence and improving water skills.
- Monitored individual progress and tailored lessons to address specific needs and learning paces.
- Collaborated with fellow instructors to adapt lesson plans, ensuring each child's safety and success.
- Fostered a safe and engaging learning environment by reinforcing essential water safety practices.

## Projects

**Broken Codes Bot** 
*Python, Git*

- Developed a high-performance Discord bot serving 50,000+ users across 40+ servers with minimal latency.
- Integrated Roblox APIs for asynchronous code generation and real-time item data retrieval.
- Designed and implemented user-configurable settings for access control, limits, and visibility.
- Deployed the bot for continuous 24/7 operation, managing 1,000+ daily requests with effective load balancing.
- Enhanced system robustness with advanced error handling and I/O optimization for high availability.

**Terminal Portfolio Website**
*JavaScript, HTML, CSS*

- Developed a terminal portfolio using JavaScript and jQuery, showcasing coding skills with dynamic functionality.
- Integrated external libraries for advanced terminal features and autocomplete capabilities.
- Designed a responsive and customizable terminal interface using CSS variables for enhanced user experience.
- Deployed as a web-based application, ensuring accessibility and effective demonstration of technical expertise.

**SJSU CS46B Labs** 
*Java*

- Developed and implemented basic data structures and algorithms in Java.
- Worked on projects involving arrays, linked lists, stacks, queues, trees, and graphs.
- Execute sorting and searching algorithms to enhance problem-solving skills.
- Collaborated with peers on lab exercises to optimize code efficiency and functionality.
- Applied concepts to practical coding problems and assignments to solidify understanding.

## Skills

- **Languages**: Python, Java, Javascript, HTML/CSS
- **Frameworks**: OpenAI API, Discord.py, MongoDB, Flask
- **Tools & Technologies**: Unix/Linux, Docker/Docker Compose, MongoDB, Git, SSH,