

Shaun Rose

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U.S. Citizen, Located in Monterey, CA

Education, Certificates, & Awards:

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| • B.S. in Computer Science from CSU Monterey Bay, 3.7 GPA | Graduated December 2024 |
| • CompTIA Security+ | Certified November 2025 |
| • CSUMB School of Computing Most Impactful Teaching Assistant Award | Awarded December 2024 |
| • SACNAS 2024 & GMIS 2024 Conference Travel Scholarships | Awarded August 2024 |

Work History:

ORISE Symbolic AI Research Intern at Naval Postgraduate School, Monterey CA *April 2025 to Current*

- Contributed to the development of SigmaKEE, a Java-based research platform that allows users to create, edit, and test neuro symbolic AI systems so computers can reason over complex real-world information.
- Refined the Suggested Upper Merged Ontology by applying logic and linguistic semantics to formalize definitions of concepts and relationships in the expressive logical language of SUO-KIF.
- Helped integrate a translation pipeline of SUO-KIF into First-Order Form, Typed First-Order Form, and Typed Higher-Order Form to enable seamless compatibility with multiple automated theorem provers.
- Applied Vampire, EProver, and LEO theorem provers within SigmaKEE to test conjectures and evaluate automated inference over First-Order and Higher-Order Logic representations of SUMO.
- Coordinated research tasks through weekly meetings, code review feedback, and development planning, demonstrating strong organizational, written, and verbal communication skills.

Bioinformatics Research Lead, CSU Monterey Bay, Monterey CA *November 2023 - January 2025*

- Developed full-stack research software for bioinformatics, helping researchers visualize, classify, and analyze non-coding RNA tertiary structures through web-based tools.
- Led three Agile undergraduate teams using GitHub Projects, planning meetings, and task tracking to organize development across multiple research applications.
- Built web tools with TypeScript, Next.js, Node.js, Babylon.js, NestJS, and MySQL to support scientific analysis and interactive RNA structure visualization.
- Reviewed GitHub pull requests for design, coding, documentation, and maintainability standards, improving project sustainability for future student developers.
- Designed Python data analysis pipelines to process RNA motif base pairing datasets, supporting conference research presentations at SACNAS 2024 and GMIS 2024.

Teaching Assistant, CSUMB School of Computing & Design, Monterey CA *August 2023 - December 2024*

- Supported undergraduate computer science instruction in algorithms, computer networks, and computer architecture, helping students understand technical concepts through labs, review sessions, and individual guidance.

- *Led lab sessions on arrays, tree traversal, BFS, DFS, hash maps, binary arithmetic, logic gates, MIPS assembly, machine language, memory hierarchies, and CPU design to reinforce core computer science concepts.*
- *Guided students through networking topics including IP addressing, DNS, HTTP, TCP, IP, UDP, DHCP, BGP, Wireshark, and virtual machines to strengthen their applied understanding of computer systems.*
- *Communicated technical material clearly to students with different levels of preparation, helping professors focus on lectures while maintaining hands-on instructional support.*
- *Recognized with the Most Impactful Teaching Assistant Award in Fall 2024 for supporting student learning and contributing positively to the School of Computing & Design.*