Riley Thompson

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EDUCATION

San Diego State University — San Diego, CA
Bachelor of Science in Computer Science — *Aug. 2021 – May 2025*
- GPA: 3.86
- Relevant Coursework: Data Structures, Unix Administration, Intro to Artificial Intelligence, Database Techniques
- Organizations: Cyber Defense Team, Delta Upsilon

EXPERIENCE

Treasurer at Cyber Defense Team — May 2023 – Present
San Diego State University — *San Diego, CA*
- Help prepare for 100+ hour lectures for the entire club on offensive and defensive cyber security
- Communicate with the College of Science to coordinate opportunities for the team, advertise the club, and stay connected with the SDSU student body
- Collaborated with club officers to develop and maintain annual budgets, ensuring alignment with organizational goals and financial sustainability
- Created a bank account for the team, and created a system to manage our money and keep track of all expenditures

FireCrest — May 2023 – Present
firecrestai.com — *Remote, CA*
- Utilized cutting-edge technologies such as LangChain, Open AI, PaLM, and Hugging Face for diverse language model training and development
- Incorporated Auth 2.0 and 2FA, securing user authentication and protecting sensitive data
- Leveraged PostgreSQL for efficient data management
- Introduced a feature to browse popular prompt topics and subtopics, streamlining content creation
- Implemented custom LLM settings enabling model and token number alterations, enhancing user experience
- Developed a generative AI design dashboard that facilitates content generation and selection of various template outputs

PROJECTS

Multifaceted Systems Integration and Management | *VMware, ESXi, Docker, DNS, LDAP, VPNs, Administration*
- Established and managed a variety of operating systems including OpenBSD, FreeBSD, Rocky Linux, and Ubuntu, implementing centralized authentication services and key-driven SSH security
- Created a secure private network, implemented containerization with Docker, and explored backup and virtual conversion strategies, including private cloud integration with ESXi
- Engaged with public cloud using Microsoft Azure, introduced VPNs, and managed virtual machines with tools like Ansible, focusing on automation and centralized logging with syslog
- Integrated Lightweight Directory Access Protocol (LDAP) to manage users and permissions, enhancing security through centralized authentication and facilitating efficient user management across various systems

Sparrow App | *Flutter, Dart, Firebase, Git*
- Created full login and user registration pages with 2FA where data also persists in Firebase database
- Designed cross-platform app prototype using Flutter framework allowing easy categorization of an individuals fitness information and workouts
- Created an intuitive UI design using tools like Xcode, Android studio, and Firebase libraries for implementation

Routes in Graph | *C++*
- A program where you find which nodes have the most connecting nodes to least connecting nodes in a graph
- Created a recursive depth first search algorithm to find length of node paths
- Uses sorting algorithms to sort nodes based on the length of their paths
- Utilizes a map to store each node and find them in a more efficient manner

TECHNICAL SKILLS

Languages: Java, C, C++, HTML, Assembly, JavaScript, Python, Dart, SQL
Developer Tools/Frameworks: Git, React, Flask, Vi, Linux, Docker, Firebase, Flutter