

Riley Thompson

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EDUCATION

San Diego State University

Bachelor of Science in Computer Science

San Diego, CA

Aug. 2021 – May 2025

- GPA: 3.89
- Relevant Coursework: Data Structures, Unix Administration, Intro to Artificial Intelligence, Database Techniques
- Organizations: Cyber Defense Team, Delta Upsilon, eLeet Coders club

EXPERIENCE

Teacher Assistant for Unix Administration

Aug 2023 – Present

San Diego State University

San Diego, CA

- Mentored 80 students in Unix administration labs, enhancing their proficiency and hands-on skills in Unix system management
- Collaborated with the professor to develop and deliver contemporary course materials, ensuring alignment with current Unix administration best practices
- Conducted one-on-one and group sessions, addressing technical challenges and bolstering students' confidence in Unix system management
- Played a pivotal role in educating students about integral Unix concepts, including VMs, operating systems, shell environments, and other critical Linux/Unix tools

Cyber Defense Team Treasurer

May 2023 – Present

San Diego State University

San Diego, CA

- Aided in the preparation and delivery of extensive 100+ hour lectures covering both offensive and defensive cybersecurity strategies, ensuring members are at the forefront of industry knowledge
- Communicated with the College of Science to foster opportunities for the team, elevate club visibility, and strengthen ties with the broader SDSU community
- Worked in tandem with club officers to devise and uphold annual budgets, guaranteeing adherence to the organization's mission while ensuring long-term financial viability
- Participated in the Collegiate Penetration Testing Competition, placed 24th out of 4672 teams in the NCL Team game, and achieved the 85th percentile in the NCL Individual game

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

FireCrestAI.com | *React, Flask, Python, PostgreSQL, Git*

- Utilized technologies such as LangChain, PaLM, and render for innovative LLM interaction and web service creation
- Integrated OAuth 2.0 and 2FA for robust user authentication, and leveraged PostgreSQL for optimized data management
- Introduced a feature to browse prompt topics, and implemented adjustable LLM settings, elevating user experience and content accessibility
- Developed a generative AI dashboard that streamlines content generation, the ability to adjust LLM models, tokens, and temperature leading to a more tailored experience for each user

Sparrow App | *Flutter, Dart, PostgreSQL, Git*

- Created full login and user registration pages with 2FA where data also persists in PostgreSQL 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 Render, Visual Studio Code, and Flask for implementation

TECHNICAL SKILLS

Languages: C++, Java, Python, SQL, HTML, JavaScript, Dart

Developer Tools/Frameworks: Git, React, Flask, Vi, Linux, Docker, Flutter