Riley Thompson

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EXPERIENCE

Teacher Assistant for Unix Administration
San Diego State University

Aug 2023 – Present
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

FireCrest
firecrestai.com

Summer 2023
Remote, CA

- Utilized leading-edge technologies such as LangChain, PaLM, and render for innovative LLM training and enhancement
- 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

Cyber Defense Team Treasurer
San Diego State University

May 2023 – Present
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
- Established the team's bank account and initiated a financial tracking system for transparency and efficient management of funds

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

EDUCATION

San Diego State University
Bachelor of Science in Computer Science

San Diego, CA
Aug. 2021 – May 2025

- GPA: 3.87
- Relevant Coursework: Data Structures, Unix Administration, Intro to Artificial Intelligence, Database Techniques
- Organizations: Cyber Defense Team, Delta Upsilon