Kyle Free

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Education:

Oregon State University

College of Electrical Engineering and Computer Science

- B.S in Applied Computer Science
- Expected graduation date | June 2025

Research Experience:

Oregon State University

Large Language Models (LLMs) Vector Analysis

- Analyzed vector data from BERT and GPT-2 models to explore semantic properties, leading to insights on semantic volume variations.
- Engineered a script that is used to calculate semantic volumes across 13 model layers for 5,000 words using dimensionality reduction techniques, contributing to understanding of model behaviors.
- Investigated semantic diversity by comparing clustering of words with varying contextual meanings, advancing research in linguistics and AI.

Professional Experience:

Menlo Security

Security Engineer | September 2022 – Present

- Reduced reported vulnerabilities by 40% by refining reporting methods and optimizing patching schedules, strengthening software security.
- Engineered Python-based automation tools, increasing operational efficiency by 30% in vulnerability scanning and security patch management.
- Managed the maintenance and release of an internal operating system used by 11 teams, improving system stability.
- Configured Splunk for advanced alerting, reducing incident response time by 25% through enhanced monitoring capabilities.
- Developed Bash scripts to verify and log FIPS package compliance, achieving 100% adherence to security protocols.
- Contributed to successful FedRAMP assessment, SOC-2 certification, and ISO audit by integrating security engineering with compliance requirements, resulting in zero critical findings.

Oregon State University

Computer Science Teaching Assistant (Python Programming) | September 2023 – Present

- Lead five weekly one-hour office hour help sessions, teaching students Python programming and problem-solving techniques.
- Provided individualized support, assisting students with debugging and overcoming coding challenges, resulting in an improvement in assignment completion rates with multiple students stating that my support helped them stay on course.
- Fostered an inclusive learning environment by effectively communicating complex technical concepts, contributing to increased course satisfaction ratings.

Menlo Security

Security Engineer Intern | May 2022 – September 2022

- Optimized Python scripts for SQL database integration, increasing data processing speed by 40%.
- Designed data flow and network diagrams with LucidChart for stakeholder communication, improving project clarity and collaboration.
- Restructured Loopio libraries, enhancing user experience and accessibility, reducing search time by 50%.