Joseph Mangapit

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Experience

University of California, Riverside
New Graduate: Dec. 2024
Master of Science in Computer Science
Overall GPA: 3.56

University of California, Riverside
Bachelor of Science in Computer Science with Business Applications
Overall GPA: 3.78
Cum Laude

Skills

Languages/Tools
Python, C++, JavaScript, PSQL, HTML, Java, LC-3 Assembly, G-Test, Arduino

Certifications
MS Word, Excel, PowerPoint

Familiar Libraries
Pandas, NumPy, Docker, NLTK, spaCy, Transformers, TensorFlow, PyTorch, scikit-learn, Burp Suite

Top General Skills
Reliable Interpersonal & Technical Communication, Adaptability, Time Management

Projects

Automatically Jailbreaking Black-Box LLMs (Link)
Reference: Yue Dong, yue.dong@ucr.edu – My professor
- Achieved a 44% jailbreak capability against a state-of-the-art LLM.
- Utilized LLM APIs and related libraries: OpenAI, FastChat, Replicate, Accelerate.
- Leveraged wandb for comprehensive experiment tracking and real-time graph visualization.

Block Survival Game (Embedded Systems Project) (Link)
- Developed a block survival game on an Arduino using C++.
- Integrated an ultrasonic sensor, LCD display, LED light, button and more.

DeepDiWeb (Link)
- Developed a full-fledged Online Disassembler (BitSecurerLab).
- Bridged the technical communication gap between my team's current abilities and our expectations.
- Helped create a 3D force-graph for ease of use using Vue as the framework.

Website (https://Badmininginja.github.io)

Experience

Artificial Intelligence Teacher Assistant - Riverside, CA
Teacher Assistant - Mar 2024 - Jun 2024
Reference: Sofia Sakellaridi, sofias@ucr.edu – My professor
- Increased student grades up to 20% by preparing and leading weekly discussion sessions.
- Assisted in developing course materials and providing technical support during labs.
- Helped students maintain data quality and performance throughout the ETL process.

BitSecurerLab - Riverside, CA
Research Intern - Apr 2023 – Dec 2024
- Learned and applied reverse engineering techniques using Ghidra for binary analysis.
- Collaborated effectively within an Agile development team.
- Developed a visualization tool that improved clarity of connected functions & memory objects by 25%.