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Stockton, CA

TECHNICAL SKILLS

Specialties: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, HPC, Full-stack, Infra Programming Languages: Java (advanced), C++ (advanced), Python (advanced); Swift, R, and JavaScript (intermediate) Technical: PyTorch, MQTT, Linux, LLMs, TCP/IP, Postgres, TensorRT, SQL, NoSQL, AWS, TensorFlow, SKLearn, Full-stack Certifications & Training: Cloud Computing (Coursera), macOS System Administrators (LinkedIn), C# with Unity (LinkedIn), Social and Behavioral Research (CITI), Deep Learning (NVIDIA), Develop apps for Apple platforms (Apple)

EDUCATION

| University of the Pacific B.S. in Computer Science & Data Science GPA: 3.7 | СА | 12/2024 |
|---|--|---------------------------------------|
| University of Illinois at Urbana Champaign Computer Engineering | IL | 08/2020 - 05/2022 |
| Relevant courses: Artificial Intelligence, Computer Game Technologies, Computer Systems & Graphics, Computer Simulation, Operating Systems, Application Development | · • | |
| Achievements: Dean's Honor Roll, University's Best Project Fall 2024, Publication and Bool | K Chapter, 2nd place H ₂ O | Hackathon |
| EXPERIENCE | | |
| NVIDIA - High-Performance Computing and Deep Learning Lab Performance Engineer Intern Deep Learning, HPC, PyTorch, TensorRT Benchmarked GPU performance across leading HPC and DL frameworks (e.g., PyTo Developed automated performance benchmarking and monitoring scripts in Python, in Conducted performance issue analysis with global teams to enhance system reliability Generated comprehensive test reports with Excel and Tableau to support strategic decise Delivered 100% of tasks labeled critical on time, ensuring uninterrupted workflows for | nproving data collection of and efficiency. sions for 5+ global teams. | |
| QQ Tech, Inc Software Engineer Intern – Data & ML Applications Web crawler; Machine learning, Nature Developed robust web scraping pipelines to gather and process structured and unstruct Implemented efficient classification algorithms by collaborating with front-end developed | tured data for NLP project | 08/2024 - 12/2024 cts. |
| Dr. Pallipuram's Research Lab - University of the Pacific Stockton, CA 01/2023 - 02/2025 <i>Research Assistant</i> Natural language processing, LLM, GPT-3.5 Turbo, Data mining, Recommender systems, Generative AI Developed an NLP framework leveraging GPT-3.5 Turbo for user review analysis and recommendation generation. Published a journal paper in Elsevier's Machine Learning with Applications, achieving 90%+ Bard-based satisfaction. Conducted NLP text classification research, published findings to book chapter "Machine Learning in Educational Sciences". Developed a Virtual TA using Sentence Transformer and Prompt Engineering. | | |
| Pacific Technology Student Technical Support Technician Networking, Workstation reimaging Resolved 20+ tickets weekly, including networking issues and workstation reimaging. Consistently won top-3 technician ranking for exceptional efficiency, technical experti Supported and managed audio/visual equipment for 50+ university events, ensuring flat | | 01/2023 - 12/2023 ort. |
| University of the Pacific - School of Engineering and Computer Science <i>Teaching Assistant</i> <i>Data Structures and Algorithms, C++</i> Designed and graded coursework, hosted weekly office hours and exam reviews, instruptofessor's absence, and supported 50+ students in mastering programming fundamental | | 08/2023 - 12/2023 during the |
| Grainger Electrical and Computer Engineering - Advanced Power Lab Research Assistant BeagleBone Black, MQTT, Java Graphics Engineered wireless MQTT-based communication with wind energy systems, enabling Pioneered the lab's first graphical visualization system capable of displaying 10+ real-t feature and customizable UI for enhanced system control and safety. | | |
| Illinois Office of Undergraduate Research & the Graduate College <i>Research Apprentice</i> <i>Computational Fluid Dynamics, Finite Element Analysis</i> Optimized computational mesh structures for fluid simulations under the guidance of a Laboratory on a river dynamics and sediment transport project using CFD and Finite E | | 01/2021 - 06/2021 ydrosystems |
| PROJECT | | |
| Senior Project: Freeze - Video Content Search Engine <i>R&D Engineer</i> <i>PySceneDetect, YOLOv8, PostgreSQL, Scene and Object detection, Video a</i> Developed video content search engine using PySceneDetect and YOLOv8, enabling s | | 08/2024 - 12/2024 with thresholds. |

- Developed video content search engine using PySceneDetect and YOLOv8, enabling scene and object searches with thresholds.
 Optimized with Metal Performance Shaders to process 20-minute HD videos in under 3 minutes with high accuracy.
- Awarded the University's **Best Project of Fall 2024**, showcased at the university exhibition. [Project Showcase]