Qasim Khan

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AI professional with a strong foundation in computer science.

EDUCATION

University of Texas at Austin   Austin, TX
Master of Science in Artificial Intelligence   *August 2024 – Present*

George Mason University   Fairfax, VA
Bachelor of Science in Computer Science   *May 2020 – May 2023*

TECHNICAL SKILLS

Certification: AWS Certified Developer Associate, AWS Certified Machine Learning Specialty
Languages: Python, Java, C, Haskell, HTML, CSS, JavaScript, Assembly, MATLAB, TeX
Frameworks: OpenAI, PyTorch, TensorFlow, Keras
Developer Tools: Git, Docker, VS Code, Visual Studio, Eclipse, SQL Developer

PROJECTS

Cryptocurrency Trading bot with Sentiment Analysis | *Python & TensorFlow*
- Modified an algorithmic trading bot to fetch and analyze Twitter data using the X (Twitter) API.
- Implemented sentiment-based decision-making, adjusting buy/sell logic to optimize performance using FinBERT
- Conducted backtesting on historical data to validate trading strategy adjustments, demonstrating improved profitability and reduced exposure to high-risk trades.

Race Car Grand Prix Tournament Scrum Master | *Python & Agile Development*
- Developed software in a team environment for remote control of race cars using a Raspberry Pi using agile development processes
- Led bi-weekly sprints and was responsible for identifying which features were to be implemented.
- Planned and organized review sessions and office hours for students

Task Manager | *C*
- Implemented a robust task manager leveraging Unix-like principles of process management such as process execution, control and signaling.
- Developed and optimized task scheduling algorithms to ensure efficient CPU utilization
- Integrated inter-process communication (IPC) mechanisms for seamless process interactions.

OS161 - Kernel Space Development | *C*
- Implemented synchronization primitives to facilitate concurrency & advanced algorithms for OS services such as memory management and process scheduling.
- Developed and tested mutexes, semaphores, and condition variables to handle concurrent processes.
- Optimized memory allocation and deallocation strategies to minimize fragmentation.

Hospital Database | *SQL & Mongo*
- Designed databases and performed data manipulation, demonstrating proficiency in managing large datasets.
- Developed complex queries to retrieve and manipulate data efficiently.
- Developed user interfaces for database interaction using front-end technologies

EXPERIENCE

Specialist   December 2023 – December 2024
Apple   *Fairfax, VA*
- Diagnosed and resolved technical issues, providing troubleshooting assistance for Apple devices.
- Stayed up to date on the latest Apple technologies and product updates to provide accurate information to customers.
- Contributed to the training of new staff members on Apple products and customer service best practices.

Teaching Assistant   October 2021 – May 2023
George Mason University   *Fairfax, VA*
- Communicated complex concepts to students in a concise manner in verbal and written form.
- Assisted professors in preparing and grading assignments for undergraduate courses.
- Planned and organized review sessions and office hours for students