Qasim Khan

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Graduate AI student with expertise in software development, machine learning, and AWS, seeking to leverage technical skills to solve real-world challenges.

EDUCATION

University of Texas at Austin — Austin, TX
Master of Science in Artificial Intelligence (GPA: 4.0) — *August 2024 – Present*

George Mason University — Fairfax, VA
Bachelor of Science in Computer Science (GPA: 3.6) — *May 2020 – May 2023*

TECHNICAL SKILLS

Certification: AWS Certified Developer Associate, AWS Certified Machine Learning Specialty
Languages: Python, Java, C, Haskell, HTML, CSS, JavaScript, Node.js, Assembly, MATLAB, TeX
Frameworks: OpenAI, PyTorch, PySpark, TensorFlow, Keras
Developer Tools: Git, Docker, VS Code, Visual Studio, Eclipse, SQL Developer
Computer Science Fundamentals: Object-Oriented Programming, Operating Systems, Database Management

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 and reduce exposure to high-risk trades

Hospital Database | *Java, 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-facing API endpoints for streamlined front-end communication.

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
- 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 strategies to minimize fragmentation

EXPERIENCE

Specialist — Dec 2023 – Present
Apple — *Fairfax, VA*
- Collaborated across cross-functional teams to develop innovative solutions for common customer challenges
- Provided technical solutions and improved user experiences for Apple product users
- 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 clearly in verbal and written form
- Improved student performance through tailored instruction, increasing grades by two levels
- Planned and organized review sessions and office hours for students