# Shashank Iswara

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## EDUCATION

**The University of Texas at Austin**, Austin, TX *Graduation: May 2026*

*Master of Science, Computer Science | Bachelor of Science, Computer Science | Minor in Quantum Information*

- GPA: *3.91 (University Honors)*
- Relevant Coursework: Computer Architecture, Operating Systems, Network Security, Compilers, Physical Simulation, Graphics, Data Science, Networking, Neural Networks, Virtualization

## TECHNICAL SKILLS

- **Languages:** Python, C, C++, Java, JavaScript, TypeScript, HTML, SQL, Bash, Go
- **Machine Learning:** PPO, RAG, Transformers, Reinforcement Learning, LSTM's
- **Systems & Frameworks:** Linux, React, MongoDB, Node.JS, AWS, Git, PySpark, Terraform, Docker, Kafka, LLVM, WebGL, GLSL, Redis, CUDA, PyTorch, TensorFlow, ONNX, RayData

## EXPERIENCE

**Visa -** *Software Engineering Intern* May 2025 – August 2025

- Implemented, tested, and deployed of a production ML model for enumeration attack detection
- Took ownership of model serving and feature engineering, ensuring <100ms tail latency
- Technologies: REST API, RayData, Redis, Kafka, Docker, SQL, Python, Go

**Applied Research Laboratories -** *Quantum Software Intern* May 2023 – August 2023

- Implemented an ML model to optimize an atomic phase estimation sensor
- Achieved 2x improvements in sensor accuracy over classical methods
- Technologies: SciPy, Python, Reinforcement Learning, Multi-Threading, Quantum Computing

**State Farm** - *Software Engineering Intern* May 2022 – August 2022

- Designed and implemented an end-to-end data pipeline to automate the data pass through to the P&C team, increasing efficiency by eliminating the need for two hours of daily manual data processing
- Technologies: AWS (Lambda, S3, Glue, CloudWatch, IAM), Terraform, Python, JavaScript, CI/CD

**UT Austin Department of Computer Science - Teaching Assistant** January 2023 – May 2024

## PROJECTS

**Event Driven Stock Price Forecasting**

- Fine-tuned BERT model for event-driven forecasting, outperforming LSTM on select market events
- Demonstrated the use of LLMs in financial forecasting
- Technologies: Python, PyTorch, BERT, LSTM, Time-Series Analysis, NLP

**LLM-Based Kernel Optimization**

- Benchmarked every popular LLM on the task of generating custom CUDA kernels for ML workloads
- Achieved performance and correctness improvements through prompt engineering and fine-tuning
- Technologies: GPU Programming, CUDA, PyTorch, RAG, LLMs, Model Fine-Tuning

**Raytraced Animation Engine**

- A multithreaded raytraced animation engine that won performance contest at UT Austin
- Technologies: C++, Ray Tracing, Rendering, Multi-Threading

**Smart-NIC Benchmarking**

- Research project analyzing the performance characteristics of the DPU-enhanced Bluefield-3 for critical network tasks, including distributed machine learning training
- Technologies: C++, Linux Servers, DOCA Programming, Networking, Distributed Systems