Yusif Kazimzade

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing, School of Mathematics | Atlanta, Georgia
Bachelor of Science in Computer Science, Minor in Math ~ Concentration AI and Info Internetworks | EXPECTED *December 2025*

- Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Computer Organization & Programming, Quantum Computing, Machine Learning, Objects & Design, Linear Algebra, Calc 1/2/3, Databases

EXPERIENCE

PayRiff CJSC **Baku, Azerbaijan**
Software Developer *May – August 2022*

- Managed SQL databases for 80,000 users across Pakistan and Azerbaijan, optimizing queries to reduce costs by 15%.
- Executed front-end tasks (React, Angular, HTML/CSS) and optimized websites to align with SEO best practices, resulting in a 20% surge in website traffic, enhancing user engagement and overall online visibility by 80%.
- Collaborated seamlessly with the customer support department, providing technical assistance to ~200 users while proactively collecting 1000s of rows of readable data (Excel + .csv, JSON) for debugging and future ML purposes.

PERSONAL PROJECTS

BetSmart Arbitrage *May 2024 – August 2024*

- Co-founded a startup developing algorithms to identify arbitrage opportunities across 30 different sports betting platforms.
- Developed the website (React, Angular, Node.js), and built a subscription-based service that provides users with 50 guaranteed profitable bets per hour (using real-time API), delivering live updates via a custom-built Discord bot.

Crypto Trading Algorithm *May 2024 – August 2024*

- Conducted in-depth data analysis on 10 top trading wallets, calculating profit margins and identifying trading strategies.
- Implemented a sophisticated algorithm integrating 3 APIs (GraphQL) to track and analyze trending cryptocurrencies.
- Replicated the top wallet strategies in a personal wallet, achieving consistent returns by following data-driven decisions.

AI Face Detection Algorithm *August 2024 - Present*

- Engineered an AI face detection algorithm using neural networks, designed to detect human faces in real time accurately.
- Used deep learning frameworks (TFOD API, Detectron2) to train/fine-tune the model, ensuring accuracy across datasets.
- Leveraged WSL2 (Linux) with CUDA 12.3 and cuDNN 8.9 libraries to execute the code on a GEFORCE RTX 4070 GPU, significantly speeding up computation times and improving model efficiency (by 50% from the initial working code).

RESEARCH

Quantum Computing **Atlanta, Georgia**
Simulations Subteam *January 2023 – May 2024*

- Stored quantum codes from MIT and 5 different universities to run simulations and increase the simulation capacity while using GitHub and Jupyter to ensure ease of readability/make the information accessible for all the researchers.
- Executed 100s of high-fidelity 20-qubit quantum simulations every hour with exceptional efficiency using Frozone GPUs, showcasing rapid computation in just a matter of seconds, and increasing simulation throughput by 30/40%
- Harnessed the power of NVIDIA's cuQuantum software development kit to integrate Qiskit quantum simulations, exemplifying proficiency in quantum computing optimization and leveraging hardware acceleration technologies.

Machine Learning Subteam

- Tested ML/Quantum frameworks (TFQ, Cirq, TorchQuantum, PennyLane) within Docker containers for consistent development environments and conducted OS compatibility testing across various Ubuntu (20.04, 22.04) versions.
- Developed and maintained documentation for 3 different projects and tested machine learning code using 10s of different versions of CUDA and cuDNN, ensuring the easiest possible knowledge transfer and use of machine learning algorithms.
- Leveraged open-source software with one of them being IBM's quantum tools (Qiskit Ignis) to conduct noise reduction tests achieving a 10% noise reduction for improved quantum computing performance.

SKILLS

Programming: Java, JavaFX, HTML, CSS, JavaScript, C, C++, Python, Assembly, MATLAB, MySQL, PyTorch, TensorFlow
Technical: SEO, Bash, Linux, Jupyter, Cloud Computing (Azure, AWS), Docker, GraphQL APIs, Project Management
Languages: English (Native), Azerbaijani (Fluent), Turkish (Advanced), Russian (Advanced), Arabic (Beginner)
Volunteer: F1 Azerbaijan Grand Prix volunteer, Help the Nature Volunteer, Andrew Collins Project (Helping Hand)
Activities: Professional Basketball Player (2020-2021), Chess Advanced Degree, Professional Audio Mixing/Mastering
Achievements: INFOMatrix (Silver), 4th Belt and Road China (4 Golds), Azerbaijani Scholarship for GT (Full Scholarship), Azerbaijani National Software Development Olympiad (4th place), MES of Ukraine Honors Award for Project