

## Shai Verma

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### EDUCATION

#### University of Connecticut

Storrs, CT

Bachelor of Science in Computer Science (Honors Program)

August 2023 – May 2027

**GPA:** 3.95 (Dean's List Engineering Scholar) (Babbidge Scholar '24)

**Related Coursework:** Data Structures and Algorithms, Algorithms and Complexity, Cybersecurity, Computer Architecture, Machine Learning, Deep Learning, Quantum Computation and Information, Probability, Artificial Intelligence, Systems Programming, Big Data, Computer Vision

### SKILLS

**Languages:** Python, C, C++, Javascript, HTML, CSS, Typescript

**Frameworks/Tools:** GitHub, Docker, BurpSite, VS Code, PyCharm, LaTeX, Jupyter, Streamlit

**Libraries:** React, Next.js, Tailwind CSS, Pandas, NumPy, Matplotlib, Seaborn, PyTorch, Transformers, Faker, MyHdl, OpenAI, Google-GenAI, LangChain, Scikit-learn, FastAPI, Qiskit

**Platforms & Databases:** SQL, Supabase, PostgreSQL, Firebase

### EXPERIENCE

#### Undergraduate Research Assistant

October 2025 – Present

School of Computing, University of Connecticut

Storrs, CT

- Implement Qiskit circuits for the combinatorial Weapons Target Assignment Problem (WTAP).
- Run simulations to benchmark solutions, debug circuits, and validate outputs against known/expected optima.
- Optimize and document related code and workflows to ensure reproducible experiments and easy reuse by the research team.

#### AI Developer

December 2025 – Present

DeepSalud Digital Health

Remote

- Built the MVP for the AI-powered patient engagement platform (core product features + deployment).
- Implemented voice recognition and cultural-competency logic in the AI pipeline.
- Wrote technical/business documentation and supported business development (partner/customer-facing materials, pitches).

#### STEM Fund Analyst

August 2025 – Present

Hillside Ventures

Remote / Storrs, CT

- Conduct technical and market due diligence on early-stage STEM startups, including AI and quantum computing sectors.
- Collaborate with investment team to assess product viability, competitive landscape, and deep tech innovation.
- Pitched startups to investment committee with data-driven analysis and financial modeling insights.

### PROJECTS

#### MIT iQuHACK '26 (3rd place) ([GitHub](#))

February 2026

Massachusetts Institute of Technology

Cambridge, MA

- Implemented Iterative Quantum Amplitude Estimation (IQAE) and Quantum Signal Processing (QSP) on top of the Classiq SDK baseline to compute CVaR and EVaR for portfolio risk estimation.
- Designed and ran benchmarking tests to compare accuracy and performance vs. the provided baseline for State Street's VaR-focused challenge track.

#### MIT iQuHACK '25 (3rd place) ([GitHub](#))

February 2025

Massachusetts Institute of Technology

Cambridge, MA

- Developed a quantum-classical hybrid solution for the Quadratic Assignment Problem in a dynamic hospital setting.
- Explored and compared Non-Linear models and Constrained Quadratic Models against classical NL optimizers from SciPy.

#### YQuantum '25 (1st place) ([Github](#))

April 2025

Yale University

New Haven, CT

- Decoded hidden bitstrings in specially crafted quantum circuits (Peaked Circuits) provided in .qasm format.
- Applied quantum circuit cutting (horizontal & vertical), Quimb tensor networks, and simulators including BlueQubit CPU/MPS, Quantum Rings, and IBM Aer.