

# AMAN NANDA

## Quantum Software Developer | AQV Hackathon Winner

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### PROFESSIONAL SUMMARY

Quantum Computing Professional and AQV Hackathon 1st Runner-Up with expertise in building quantum circuits and software on the IBM Quantum Platform. Certified in Fundamentals of Quantum Algorithms (IBM) and WISER Phase-1, with practical experience in real-time quantum job monitoring and algorithm development using Qiskit and Python.

### CORE COMPETENCIES

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- **Quantum Frameworks:** Qiskit, IBM Quantum Platform, OpenQASM.
  - **Specialized Skills:** Hamiltonian Simulation, Error Mitigation, Quantum Entanglement, Circuit Transpilation.
  - **Programming:** Advanced Python (NumPy, Matplotlib), Machine Learning (Regression, Supervised Learning).
  - **Data Tools:** Power BI (Interactive Dashboards), Data Visualization.

### CERTIFICATIONS & ACHIEVEMENTS

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- **Fundamentals of Quantum Algorithms** – IBM (May 2026): Specialized in intermediate-level quantum algorithm design.
  - **Basics of Quantum Information** – IBM (2026): Foundational certification in quantum states and operations.
  - **WISER Quantum Fundamentals (Phase 1)** – APSCHE & Qubitech (2026): Completed structured government-backed quantum training.
  - **1st Runner-Up** – Amaravati Quantum Valley Hackathon: Recognized for designing an innovative quantum-based optimization solution.
  - **Python Essentials** – Cisco Networking Academy.

### TECHNICAL PROJECTS

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#### Quantum Job Tracker (IBM Quantum API Integration)

- Developed a tool to monitor quantum job queues and execute circuits on real IBM Quantum Hardware.
- Optimized execution workflows using Qiskit for better performance.

#### Traffic Prediction System (Machine Learning)

- Built a predictive model using regression techniques to analyze urban mobility patterns.

### EDUCATION & INTERNSHIPS

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- **B.Sc. in Artificial Intelligence:** Aditya Degree College (2023-2026).
  - **Data Analyst Intern:** Developed interactive Power BI dashboards for reporting.
  - **ML Intern:** Focused on data preprocessing and predictive modeling.