

# GURMOHIT SINGH

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## EDUCATION

The University of Texas at Austin	<i>Bachelor of Science, Computer Science</i>	Aug 2024 – May 2027 (Expected)
Lone Star Community College	<i>Associate of Science</i>	Aug 2021 – May 2024

## SKILLS

**Programming Languages:** C, Java, C#, Python, C++, TypeScript, JavaScript

**Technologies:** Frameworks: Next.js, React, Vite, Tailwind CSS, Spring Boot | Tools/Platforms: Git/GitHub, Vercel, Excel |

**APIs/Libraries:** Qiskit, PySide6 (Qt), Discord API | Web: HTML/CSS, REST

**Languages:** Native: English, Punjabi, Hindi, Urdu – Basic: Spanish

## EXPERIENCE

Tandoorish LLC – Houston, TX

### *Web Manager/Developer*

Aug 2021 – Present

- Maintaining production website content and features (menus, promos, events) and shipping online-ordering functionality.
- Optimizing website performance and SEO, improving online visibility, and raising total traffic by over 200% since takeover.
- Leading rebuild planning and deployment for next-gen site (Vite/React + Spring Boot).

### *Operations Manager*

Nov 2019 – Present

- Leading daily operations and staff management, ensuring high-quality service, customer satisfaction, and efficient workflow, resulting in 12% average year-over-year revenue growth.
- Optimizing inventory and cost control, reducing waste, and maximizing profitability through strategic budgeting and supplier negotiations, lowering operational costs by 30% overall.
- Managing and training multiple employees, fostering a positive work environment, and improving team efficiency to enhance overall service.

WPX Houston (Freelance Web Development) – Houston, TX

### *Web Developer*

Nov 2019 – Aug 2021

- Designed and developed responsive websites using HTML, CSS, JavaScript/TypeScript, and modern frameworks to enhance user experience and accessibility.
- Collaborated with clients and developers to create visually appealing and functional web designs, ensuring brand consistency and usability across devices.

## PROJECTS

QARDS – THE Quantum Card Game | *Python, Qiskit, PySide6 (Qt)*      Source: [github.com/gurmo06/QARDS](https://github.com/gurmo06/QARDS)      Sep – Oct 2025

- Built a digital card game that models quantum concepts (superposition, entanglement, interference) as core mechanics.
- Implemented interference-based mechanics inspired by Grover's diffusion operator.
- Delivered both a CLI prototype and a GUI application; earned **2nd place** at UT IBM Qiskit Fall Fest Hackathon (2025).

Tandoorish Website Rebuild | *Vite, React, Tailwind CSS, Spring Boot*

Nov 2025 – Present

- Rewriting the restaurant website from scratch with a modern frontend + backend architecture to support future features.
- Implementing responsive UI, performance, and SEO improvements; extending menu updates/online ordering functionality.
- Collaborating with stakeholders to iterate on content, UX, and deployment.

System Visualizer | *TypeScript, HTML/CSS*

Source: [github.com/gurmo06/System\\_Visualizer](https://github.com/gurmo06/System_Visualizer)

Sep 2025 – Present

- Developing an extensible web-based visualization tool to demonstrate core computer architecture concepts interactively.
- Implementing modules simulating CPU registers, ALU operations, cache behavior, & pipelining concepts for educational use.

Portfolio Website | *Next.js, TypeScript, Tailwind CSS, Vercel*

Source: [github.com/gurmo06/Portfolio](https://github.com/gurmo06/Portfolio)

Dec 2025 – Present

- Designing and deploying a personal portfolio site to showcase projects, skills, and contact information.
- Live: [gurmo.vercel.app](https://gurmo.vercel.app)

## ACTIVITIES

Summer 2025 Quantum Optics Program - Applied Research Laboratories, UT Austin – Austin, TX

Jun 2025 – Aug 2025

- Gained hands-on experience with quantum computing algorithms and their implementations with optical lab equipment.
- Implemented algorithms such as Quantum Teleportation and Entanglement Swapping and demonstrated a violation of the Bell-CHSH Inequality.

UT Quantum Collective – Austin, TX

Aug 2025 – Present

- Engaging in learning labs, reading groups, and hackathons on quantum computing.

- Building and testing circuits (Qiskit/IBM Quantum) while collaborating on undergraduate research initiatives.

Texas ACM – Austin, TX

Aug 2025 – Present

- Undertaking workshops, hack nights, and interview prep with peers to sharpen algorithms, systems, and collaboration skills.