

ABHIMANYU KHURANA

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EDUCATION

The University of Texas at Dallas

Dual B.S. in Computer Science and Mathematics; GPA: 3.352

Richardson, TX

Expected May 2029

EXPERIENCE

Undergraduate Researcher

RADA, UT Dallas

Current

Richardson, TX

- Work on quantum Bayesian optimization (QBO), connecting mathematical optimization with computing.

Software Engineer Intern

Securin

Jul. 2024 – Sep. 2024

Remote

- Built an internal CVE tracking application with PostgreSQL-backed pipelines, secure REST APIs, real-time search, filtering, and remediation status workflows.
- Delivered production features across the database, backend, and user interface; containerized the application with Docker for reliable handoff.

Co-Founder

BrickBrick

Sep. 2025 – Present

Richardson, TX

- Co-founded a student-focused venture and translated user needs into product requirements, operating workflows, and technical implementation.
- Coordinated development priorities, stakeholder communication, and iterative delivery across an early-stage team.

Peer Advisor

UT Dallas Housing

Aug. 2026 – Present

Richardson, TX

- Support a residential community through individual outreach, conflict navigation, resource referral, and program coordination.

PROJECTS

GridironDEX

- Interactive football playbook with 105 audited concepts, editable route design, deterministic defensive simulation, and full-drive progression.

Event-Driven Personal Operations Platform

- Built a local-first event-driven platform integrating email, calendars, tasks, and notes with browser automation, APIs, and restart-safe workers.

Settlement-Aware Bitcoin Event Market Research Engine

- Built a Python event-market engine with settlement-aware Monte Carlo pricing, walk-forward evaluation, fee modeling, position sizing, and restart-safe monitoring.

Applied ML Signal Lab

- Applied ML market regime classification workflow with reproducible training runs.

TECHNICAL SKILLS

Focus: Software engineering, AI/data, cybersecurity, and market systems

Languages: Python, Java, JavaScript, TypeScript, C++, C#, SQL, HTML/CSS, Bash

Frameworks and Tools: React, Node.js, Express, .NET, FastAPI, PostgreSQL, Git, Docker, Playwright, REST APIs

AI and Data: machine learning pipelines, model evaluation, feature engineering, LLM API integration, RAG concepts

LEADERSHIP AND ACTIVITIES

National Merit Scholar | Quant Finance Club | Sports Analytics Club | CodeBurners | UTD Nebula Labs API Team