

# SHEREEN ANAND

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## EDUCATION

**PES University**, Bangalore

B.Tech in Computer Science and Engineering — CGPA: 9.4/10.0

Expected May 2025

Relevant Coursework: Data Structures, Algorithms, Database Systems, Distributed Systems, Statistical Computing

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL, OCaml, Rust

**Tools:** Linux/Unix, Git, Docker, Jupyter, PostgreSQL

**Technologies:** REST APIs, Message Queues, Distributed Systems

## RELEVANT EXPERIENCE

**Quantitative Developer Intern** — Zerodha, Bangalore

**December 2024 - Present**

- Building high-performance trading systems processing 2M+ orders daily using Python and Rust
- Reduced order processing latency by 65% through optimization of database queries and message queues
- Developed real-time risk management dashboard tracking P&L and exposure across 100+ traders

**Trading Systems Intern** — Upstox, Mumbai

**May 2024 - November 2024**

- Implemented automated trade reconciliation system reducing manual checks by 85%
- Built market data analytics pipeline processing 50TB+ of historical data using Apache Spark
- Created alerts system for detecting trading anomalies, reducing incident response time by 70%

**Software Engineering Intern** — Goldman Sachs, Bangalore

**January 2024 - April 2024**

- Developed microservices for trade processing system handling \$10B+ daily volume
- Optimized database queries reducing average response time from 200ms to 50ms
- Implemented comprehensive monitoring system using Prometheus and Grafana

## PROJECTS

**Low Latency Market Making System** —

**2024**

- Built market making system in C++ processing 500K+ messages/second with sub-millisecond latency
- Implemented custom lock-free data structures and circular buffers for order management
- Created visualization suite for real-time monitoring of market making performance
- Open-sourced components garnering 300+ GitHub stars

**Options Pricing Engine** —

**2024**

- Developed multi-threaded derivatives pricing engine in Python and C++
- Implemented Black-Scholes, Binomial, and Monte Carlo pricing models
- Created risk management module calculating real-time Greeks and position limits
- Won Best Financial Project at PES University Tech Showcase 2024

**Distributed Exchange Simulator** —

**2023**

- Built fully functional exchange matching engine using OCaml and ZeroMQ
- Implemented price-time priority matching algorithm handling 100K+ orders/second
- Created fault-tolerant architecture with automatic failover and recovery
- Selected for presentation at National Systems Conference 2024

- Developed event-driven backtesting system supporting multiple asset classes
- Implemented popular trading strategies (momentum, mean reversion, statistical arbitrage)
- Built position sizing and risk management modules with custom optimization
- Used by 50+ students in PES Trading Club for strategy development

## LEADERSHIP & ACTIVITIES

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**President, PES Algorithmic Trading Club —**

**June 2023 - Present**

- Lead team of 30+ members organizing trading competitions and workshops
- Established partnership with 5 trading firms for internship opportunities
- Organized weekly sessions on quantitative trading and systems design

**Technical Secretary, IEEE PES Student Branch —**

**January 2024 - Present**

- Coordinated technical workshops reaching 500+ students
- Organized national-level coding competitions with 1000+ participants
- Managed team of 10 volunteers for event execution

## ACHIEVEMENTS

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- Winner, Optiver Trading Competition 2024
- National Finalist, Jane Street Electronic Trading Challenge
- Gold Medalist, ACM-ICPC Regionals 2023
- 1st Place, Goldman Sachs Engineering Challenge