

# Shereen Anand

Junior Year | PES University | Computer Science & Engineering

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## Interests

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Quantitative finance, machine learning applications in trading, competitive programming, and blockchain technology for decentralized finance.

## Education

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**Bachelor's of Technology in Computer Science and Engineering** Sept 2022 – Jul 2026  
People's Education Society University, Bangalore CGPA: 3.92/4.0  
*Relevant Coursework:* Algorithmic Game Theory, Computational Finance, High-Performance Computing, Distributed Systems

**KSEEB (KPUC, Class 12)** 2020 – 2022  
Rashtreeya Vidyalaya Pre University College Score: 572/600  
*Relevant Coursework:* Physics, Chemistry, Mathematics, Computer Science

**AISSE (CBSE, Class 10)** 2018 – 2020  
Sri Kumaran's Children's Home Score: 465/500  
*Relevant Coursework:* Mathematics, Science, Computer Applications, English

## Technical Skills

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- **Programming:** C++, Python, Rust, Scala, Julia
- **Frameworks & Libraries:** TensorFlow, PyTorch, FastAPI, Apache Flink, Dask
- **Systems & Infrastructure:** Kubernetes, Kafka, Redis, gRPC, Terraform
- **Quantitative Skills:** Monte Carlo Simulations, Statistical Arbitrage, Bayesian Inference
- **AI & ML:** Transformers, Reinforcement Learning, Financial Time Series Analysis
- **Development Practices:** CI/CD, Agile, GitOps, TDD

## Experience

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**Moo Point Capital** Summer 2024  
**Quantitative Software Engineering Intern**

- Designed a low-latency trading algorithms in C++ with FPGA acceleration, reducing execution time by 40%
- Created a distributed data pipeline using Kafka and Apache Flink, capable of processing 50TB+ daily market data with sub-millisecond latency
- Developed a Bayesian Neural Network model for probabilistic price prediction, improving forecasting accuracy by 15%

**AlphaGrep** Jan 2024 – June 2024  
**Lead AI Engineer (Research Assistant)**

- Initiated a multi-agent reinforcement learning framework to optimize portfolio management strategies for high-frequency trading, achieving a 30% improvement in Sharpe ratio
- Built an NLP-based sentiment analysis model for market trend predictions, improving accuracy by 18%

**Software Engineer Intern**

- Built a real-time satellite data analytics engine using AWS Lambda and DynamoDB, reducing operational costs by 25%
- Enhanced 3D visualization tool with React and Three.js to simulate satellite orbits for tracking accuracy

**Projects**

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**Adaptive Algorithmic Trading System**

Feb 2023 - Aug 2023

- Improved a machine learning-powered adaptive trading system utilizing multi-arm bandit algorithms for strategy adjustment
- Integrated Reinforcement Learning models to optimize strategy selection, resulting in 20% higher returns
- Incorporated live market feeds using WebSocket and Kafka, achieving sub-100ms latency for trade execution

**Blockchain-based Real-time Portfolio Tracker**

Dec 2023 - Mar 2024

- Established a decentralized application for real-time portfolio tracking using Solidity and IPFS for data integrity
- Developed a real-time dashboard with React and D3.js for portfolio performance and risk metrics visualization

**High-Performance Financial Time Series Forecasting Engine**

May 2024 - Sept 2024

- Built a GPU-accelerated forecasting engine leveraging XGBoost and LSTM models for predictive analytics
- Optimized data processing using Apache Spark, processing 100GB+ daily

**Distributed Multi-Factor Model for Asset Pricing**

Oct 2024 - Present

- Designed a distributed multi-factor asset pricing model analyzing global asset price factors
- Implemented Fama-French and custom factors for risk-return framework integrated with real-time data

**Leadership & Extracurriculars**

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**Founder & President, AI & Quant Society**

PES University | 2023 – Present

- Grew membership to 100+ students; conducted 5+ hackathons and 10 workshops on financial modeling and AI

**Head, Mahil AI**

PES University | 2023 – Present

- Led a team of 20+ members to develop AI-driven solutions for women-centric problems like health analytics and safety

**Awards & Achievements**

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- ACM ICPC Regional Contest, Top 5% of 500+ teams | 2024
- LeetCode Monthly Coding Challenge, Ranked Top 2% | 2024
- Google Code Jam, Regional Finals | 2023
- HackMIT, Top 3 Best FinTech Solutions | 2023
- Infosys Hackathon (National Finals): A finalist at the national-level hackathon