Dhruv Menon

✉ dhruvmenon2005@gmail.com   📞 +918660856770   📍 Bangalore, India   in My Linkedin

PROFILE

Computer Science undergraduate passionate about the intersection of technology and finance. Experienced in backend engineering, decentralized finance systems, and machine learning applications in trading and cybersecurity. Skilled in building scalable, secure, and data-driven systems with a focus on quantitative models, algorithmic trading, and financial engineering.

EDUCATION

PES University, Bangalore,   08/2023 – Present
BTech, Computer Science and Engineering
CGPA: 8.87

PROFESSIONAL EXPERIENCE

GoQuant, *Back-End Engineer Intern*   08/2025 | Remote
- Working on backend integration of CeFi and DeFi exchanges within GoQuant's trading infrastructure.
- Contributing to Order Entry and Market Data systems for low-latency trade handling.
- Developing and testing backend modules in Python (FastAPI), C++, and Rust.
- Implementing REST and WebSocket interfaces for secure exchange connectivity and data streaming.
- Performing API integration, validation, and benchmarking across multiple trading endpoints.

ISFCR Research Lab, PES University, *Research Intern*   06/2025 – 07/2025 | Bangalore, India
- Researched AI applications in cybersecurity, focusing on NLP-based automation.
- Developed an AI-powered lecture summarizer using deep learning models for secure and scalable academic tools.

Tecplix, *Security Operations Intern*   07/2024 – 08/2024 | Bangalore, India
- Analyzed real-time threats in a SOC environment and supported incident response.
- Explored IDS and SIEM integrations, including Google Chronicle.
- Assisted in malware analysis, threat intelligence, and risk mitigation.

PROJECTS

Quantitative Cryptocurrency Arbitrage System   06/2025 – 07/2025
- Built a cross-exchange arbitrage detection and trading bot with REST API integrations.
- Implemented statistical arbitrage models (pattern recognition, mean reversion, volatility forecasting).
- Achieved <0.5s analysis times using SQLite optimization, caching, and async requests.

AI Lecture Summarizer   06/2025 – 07/2025
- Built an end-to-end lecture summarization system using Whisper ASR, LLaMA 3.1, and RAG architecture.
- Integrated semantic retrieval with ChromaDB and MiniLM embeddings for context-aware summarization.
- Achieved 0.89 semantic similarity and 0.78 topic coverage, enabling LMS deployment readiness.

Poebot.ai – AI Content Generation Platform   10/2023 – 12/2023
- Developed an AI-driven tool for automated cold emails and social media content.
- Integrated NLP models to ensure tone, coherence, and contextual relevance.

SKILLS

Programming & Systems	**Backend & APIs**	**Machine Learning & AI**
Python, C, C++, Java, SQL, Rust, Linux	REST APIs, Backend Development, Low-Latency Systems	Deep Learning, PyTorch, Keras, scikit-learn, NLP
Databases & Version Control	**Web Development**	**Cybersecurity**
MySQL, MongoDB, SQLite, Git, Bash, Jira	React.js, Next.js, Node.js, Flutter	Intrusion Detection Systems (IDS), SIEM, Incident Response

CERTIFICATES

CNR Scholarship — Top 25% – PES University

Fortinet — *Technical Introduction to Cybersecurity* (2024) | *Getting Started in Cybersecurity* (2024)

PESUIO — *Deep Dive into GenAI* (2023)

Harvard ManageMentor