

Rio Kuchlyan

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EDUCATION

University of North Carolina at Chapel Hill

Chapel Hill, NC

Bachelor of Science in Computer Science, Pre-Business Studies

Aug. 2024 – May 2028

- Relevant Coursework: DSA, Discrete Math, System Programming, Linear Algebra
- Major GPA: 4.0; Affiliations: Visual Computing and AI Lab, Scholars of Finance, TechX

EXPERIENCE

Backend Developer - Equities/Capital Markets Intern

Apr. 2025 – Present

Swing Phi

Remote

- Collaborated with a 10+ person backend team to engineer proprietary trading systems analyzing transaction data
- Refactored legacy backend codebase, reducing latency by 35% across 7 core API routes and improving throughput
- Built robust real-time data ingestion pipelines for equities data using Django, reducing processing time by 65+%
- Integrated OpenAI-powered NLP models on Microsoft Azure to parse SEC filings and inform trade decisions

Private Equity Intern

Apr. 2025 – Present

Star Course Holdings

Remote

- Automated lead sourcing via LLM integration with Skrapp API, increasing outreach from 20 to 45 leads/day
- Performed diligence on 20+ SMB targets in healthcare and SaaS, including financials, retention, and analysis
- Built and stress-tested financial models (DCF, LBO, comparables) to forecast IRRs, EBITDA, and cash flow
- Contributed to investment memos and industry thesis for 3 shortlisted deals totaling \$25M+ in enterprise value

Extended Reality Developer

Feb. 2025 – Present

Carolina AR/VR

Chapel Hill, NC

- Designed immersive VR music collaboration tool in Unity, enabling spatially-aware sound feedback
- Optimized Unity UI systems in a 5-person team, reducing frame render latency by 40% on Oculus Quest 2
- Engineered MIDI import pipeline with Koreographer, syncing musical input to real-time VR interaction
- Conducted 20+ user tests on audio reactivity and interaction design, incorporating feedback to improve UX

PROJECTS

VisuAlize | *FastAPI, React, D3.js*

Feb. 2025 – Present

- Founded an AI-based financial analytics dashboard with 10+ dynamic visualizations using FastAPI and React
- Deployed real-time stock intelligence using OpenAI API and yfinance, serving 100+ API requests/day
- Implemented valuation tools (EV/EBITDA, P/E, revenue CAGR) auto-generated from user-input tickers
- Launched a news sentiment engine parsing 200+ financial headlines/day to track market tone shifts

Dog Adoption System | *Next.js, React, Supabase*

Feb. 2025 – Present

- Architected a scalable pet adoption web app deployed on Supabase, handling listings for 100+ dogs
- Implementing CRUD APIs and Supabase auth with zero downtime; optimized DB queries to cut time by 60%
- Integrated Dog API for dynamic breed population, increasing data freshness and user engagement
- Designed responsive UI with Tailwind CSS to ensure seamless experience across mobile and desktop

Password Manager | *Python, Cryptography, Tkinter*

May 2024 – Jul. 2024

- Built a cross-platform encrypted password vault with 120+ downloads, using Fernet symmetric key encryption
- Engineered a Tkinter UI with custom themes and widgets for seamless user navigation and usability
- Added advanced features including one-click password generation, AES-level encryption, and CSV export
- Conducted local vulnerability tests and refined encryption logic to ensure robust data security

ADDITIONAL INFORMATION

Languages and Frameworks: Python, Java, React, FastAPI, Next.js, Django

Libraries and APIs: pandas, NumPy, Tkinter, D3.js, OpenAI API, yfinance

Other: English, French, Hindi, Bengali; NCBI-Published; SAT: 1550; Authorized to work for any US employer