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

EXPERIENCE

Software Engineer Intern   Apr. 2025 – Present
Swing Phi   *Remote*
- Engineering 20+ API routes serving equities and cryptocurrency prices, implementing data validation and rate limiting
- Specializing in building data pipelines for equities and capital markets data, integrating financial analysis with APIs
- Refactoring legacy backend codebase, reducing latency by 35+% across 7 core API routes and improving throughput
- Building robust real-time data ingestion pipelines for equities data using Django, reducing processing time by 65+%
- Integrating OpenAI and Claude powered NLP models on Microsoft Azure to parse SEC filings and inform trade decisions

Private Equity Intern   Apr. 2025 – Present
Star Course Holdings   *Remote*
- Restructuring intern workflows by automating manual lead sourcing through developing a lead automation program
- Automating lead sourcing via LLM integration with Skrapp and OpenAI APIs, increasing outreach from 20 to 45 leads/day
- Performing due diligence on 20+ SMB targets in healthcare and SaaS, including analysis, retention, and modeling
- Building and stress-testing financial models (DCF, LBO) to forecast IRRs, EBITDA, cash flow, and other metrics
- Contributing 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*
- Adding a critical music import feature to the rhythm VR game, enhancing user personalization and replay value
- Designing an immersive VR music collaboration tool in Unity, enabling spatially-aware sound and haptic feedback
- Optimizing Unity UI systems and scenes in a 5-person team, reducing frame render latency and responsiveness by 40+%
- Engineering MIDI import pipeline with the Koreographer library, syncing musical input to real-time VR interaction
- Conducting 20+ user tests on audio reactivity and interaction design, incorporating feedback to improve UX and output

PROJECTS

DIY News | *News API, Next.js, Supabase*   Jun. 2025 – Present
- Architecting a simple and personalized newsletter to replace the clutter of multiple email newsletter subscriptions
- Collating data from multiple news APIs to deliver 30+ active newsletters to users containing 200+ news articles daily
- Implementing Supabase auth with 100% service uptime and multi-factor user authentication for 30+ active users
- Eliminating newsletter clutter by deploying a user-personalized newsletter that replaced fragmented subscriptions
- Designed responsive UI with Tailwind CSS and React to ensure seamless experience across mobile and desktop

VisuAlize | *FastAPI, React, D3.js*   Feb. 2025 – Present
- Founding a tool that collates data from yfinance and other APIs, aggregating data for users to make financial decisions
- Integrating an AI-based financial analytics dashboard with 10+ dynamic visualizations using FastAPI and React
- Deploying real-time stock intelligence and analysis using OpenAI API and yfinance, serving 100+ API requests/day
- Implementing valuation and analysis tools (EV/EBITDA, P/E, revenue CAGR) auto-generated from user-input tickers
- Launching a news sentiment engine parsing 200+ financial headlines/day to track market tone shifts regarding stocks

ADDITIONAL INFORMATION

Technical Skills: Python, Java, React, FastAPI, Next.js, Django, pandas, NumPy, D3.js, OpenAI API, yfinance
Languages: English (Native), French (Intermediate), Hindi (Intermediate), Bengali (Native)
Interests: Golf, Trumpet, Guitar, Taekwondo, Model UN, Weightlifting, Traveling, Lifeguarding
Other: NCBI-Published; SAT: 1550; Authorized to work for any US employer