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, Visual Computing and AI Lab, Scholars of Finance, TechX

EXPERIENCE

Backend Developer - Equities/Capital Markets Intern — Apr. 2025 – Present
Swing Phi — *Remote*
- Building trading infrastructure leveraging proprietary algorithms for real-time equity analysis and execution
- Engineering equities data backend with scalable models using modern frameworks and data storage systems
- Designing APIs for real-time ingestion and transformation of equities market data for internal systems
- Optimizing trading data services by refining performance, reliability, and modular backend architecture

Extended Reality Developer — Feb. 2025 – Present
Carolina AR/VR — *Chapel Hill, NC*
- Building a VR music collaboration tool enabling interactive audio feedback in shared spatial environments
- Streamlining UI components and code execution in Unity to enhance immersion and reduce visual latency
- Implemented music import features in VR apps using Unity, MIDI Toolkit, and Koreographer

Instructor — Aug. 2024 – Present
Prep Expert — *Remote*
- Top 1% SAT tutor specializing in coaching students for the SAT and multiple AP exams including AP Physics C
- Providing individual and class tutoring to groups of 15-50 high school students throughout the United States
- Advising on tutoring operations and strategy at a Shark Tank-funded edtech firm backed by Mark Cuban

Representative — Aug. 2023 – Aug. 2024
Hillsborough Township Board of Education (BOE) — *Hillsborough, NJ*
- Acted as liaison between student councils and Board to communicate and resolve key student concerns
- Delivered concerns regarding student welfare, contributing to the BOE voting on 10+ policies bi-weekly
- Consulted the BOE on questions regarding funding for alarms compared to faculty for bathroom monitoring
- Facilitated the implementation of alarm systems and computer sign-ins to reduce bathroom vandalism by over 20%

PROJECTS

VisuAlize | *FastAPI, React, D3.js* — Feb. 2025 – Present
- Built an AI-based financial dashboard delivering visual insights and fundamental equity analysis
- Provides key performance metrics such as revenue growth, EBITDA, profit margins, and valuation multiples
- Integrated OpenAI API, yfinance, and additional financial data to provide real-time stock analysis and insights
- Developed a news sentiment feature that evaluates financial news and reports to gauge market sentiment

Dog Adoption System | *Next.js, React, Supabase* — Feb. 2025 – Present
- Developed a full-stack web application using Next.js, Tailwind CSS, and Supabase with React as the frontend
- Built a backend with Supabase for handling pet listings and database updates for adding/removing dogs
- Integrated Dog API to fetch dog breed data, images, and descriptions, enhancing the adoption experience

Password Manager | *Python, Cryptography, Tkinter* — May 2024 – Jul. 2024
- Utilized the Fernet library to encrypt password inputs into a local password manager with 120+ downloads
- Designed a modern UI using Tkinter and 2 custom Tkinter libraries, creating an appealing design
- Implemented core functionalities, including password generation, search, and CSV export

ADDITIONAL INFORMATION

Languages and Frameworks: Java, Python, JavaScript, HTML, R, React, Tailwind CSS, Next.js, Flask, FastAPI
Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Unity, Supabase
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