

# 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

- Creating and maintaining trading software leveraging proprietary algorithms to analyze and execute trades
- Restructuring backend codebase, optimizing API routes and response times significantly to support trading
- Designing APIs for real-time ingestion and transformation of equities market data for internal systems
- Implementing Microsoft Azure Cloud Services, through OpenAI integration, cloud storage, and Azure Databricks

### Private Equity Intern

Apr. 2025 – Present

Star Course Holdings

Remote

- Creating a program to automate finding leads through the Skrapp API and LLMs, increasing efficiency by 50+%
- Conducting in-depth research to identify 30+ business acquisition opportunities weekly aligned with firm goals
- Building financial models for evaluating 20+ potential investments with \$3M-\$15M in revenue
- Contributing to the due diligence process by evaluating financials, customer bases, and competitor positioning

### 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 consistently acquiring 5+ new clients weekly, driving engagement nationally
- Analyzing assessment data to craft study and practice plans, boosting students' SAT scores by 200+ points
- Providing class tutoring to groups of 15-50 students from 9th to 12th grades throughout the United States

## 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