

Rio Kuchlyan

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EDUCATION

University of North Carolina at Chapel Hill

Bachelor of Science in Computer Science, Pre-Business Studies

Chapel Hill, NC

Aug. 2024 – May 2028

EXPERIENCE

Backend Developer Intern - Capital Markets Focus

Apr. 2025 – Present

Swing Phi

Remote

- Creating and maintaining trading software using proprietary algorithms to analyze and execute trades
- Developing backend infrastructure and models for equities data systems using various frameworks and databases
- Building scalable APIs to support real-time market data ingestion, transformation, and distribution
- Enhancing performance and reliability of data services for trading and analytics platforms using multiple libraries

Extended Reality Developer

Feb. 2025 – Present

Carolina AR/VR

Chapel Hill, NC

- Developing a real-time music collaboration application to provide realistic music environments with feedback
- Optimizing performance in VR and AR applications by refining UI elements and programs within 3D environments
- 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
- Delivering innovative ideas for operations to Prep Expert, a Shark Tank featured company backed by Mark Cuban

Representative

Aug. 2023 – Aug. 2024

Hillsborough Township Board of Education (BOE)

Hillsborough, NJ

- Collaborated and discussed with student councils and BOE regarding the student community and issues
- 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

- Developed an AI-powered financial visualization tool that generates market insights and stock 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

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, R

Frameworks and Tools: React, Tailwind CSS, Node.js, Next.js, Flask, FastAPI, SwiftUI, Unity, Supabase

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

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

Other: English, French, Hindi, Bengali; Authorized to work for any US employer