

Rio Kuchlyan

(609) 651-5164 | riokuchlyan@gmail.com | linkedin.com/in/riokuchlyan | github.com/riokuchlyan | riokuchlyan.com

EDUCATION

University of North Carolina at Chapel Hill

Chapel Hill, NC

B.S. Computer Science, B.S. Business Administration

Expected Graduation: May 2028

- **Major GPA: 4.0**
- **Awards & Affiliations:** UNC Pit Journal Conference 1st Place, Dean's List, TechX

EXPERIENCE

Strategy & Growth Intern

Apr. 2025 – Present

Star Course Holdings

Charlotte, NC

- Increased **lead sourcing outreach** by **2.25x** by building a **Next.js** system integrated with **OpenAI** and data APIs
- Automated workflows with **custom CSV parsers** and **email validation algorithms**, saving **10+** hours per week
- Engineered **AI backend tools** using **Next.js API Routes** and **OpenAI** to assist due diligence on **20+** SMB targets
- Developed a **React** and **Tailwind CSS** dashboard to display data, supporting analysis for investment memos

Research Assistant

Jan. 2025 – Present

Visual Computing and Augmented Intelligence Lab

Chapel Hill, NC

- Developing a **full-stack** lab website with **Next.js** and **TypeScript**, using **API Routes** for a custom file-based **CMS**
- Engineering a **secure auth system** with **JWT**, **bcrypt** and hashing, protecting routes via **Next.js Middleware**
- Designing a **responsive UI** with **Tailwind CSS**, implementing **parallax** and **shimmer animations** for UX
- Optimizing site performance via Static Site Generation and Image Optimization, boosting traffic by **15%**

Backend Developer Intern

Apr. 2025 – Aug. 2025

Swing Phi

Remote

- Architected a **Django REST** backend with **30+** endpoints for **500+** concurrent requests, deployed via **Gunicorn**
- Built **data pipelines** with **Pandas** to process **30+** macro indicators, through **PostgreSQL** with the **Django ORM**
- Deployed **LLMs (OpenAI)** with **Azure** to parse **SEC filings**, cutting analysis time by **65%** using **LangChain**
- Integrated **11 brokerage APIs** with a **Django Factory Pattern** to calculate portfolio risk, visualized using **React**

Extended Reality Developer

Jan. 2025 – May 2025

Carolina AR/VR

Chapel Hill, NC

- Reduced frame latency by **40%** through comprehensive **UI and scene optimization** in **Unity**
- Built a **MIDI import system** using **Koreographer** to sync musical input with **real-time VR interaction**
- Developed a **VR music collaboration tool** in **Unity** with **spatial audio** and **haptic feedback**
- Ran 20+ user tests on audio interactivity and **implemented findings** to improve responsiveness and engagement

PROJECTS

DIY News | *Next.js, React, Supabase, Azure Communication Services*

May. 2025

- Developed a **news platform** using **Next.js** and **TypeScript** to scrape and parse **500+** articles daily
- Integrated **OpenAI's GPT models** to generate intelligent, **AI-powered summaries** for customized newsletters
- Deployed multiple **Supabase** databases with **MFA** to secure user portals and manage personalized news content
- Engineered an automated pipeline with **Microsoft Azure Communication Services** to email **30+** users daily

Visualize | *FastAPI, React, D3.js*

Feb. 2025

- Engineered a **full-stack** dashboard with **React** and **FastAPI**, integrating **OpenAI** and **yfinance APIs** for **equities**
- Implemented **10+ dynamic visualizations** by integrating **D3.js** with **React** to render ticker-based financial data
- Architected a **FastAPI** backend serving **100+** daily requests, using **Supabase JWT-auth** for **40+** active users
- Deployed a **decoupled architecture** via **CI/CD**, hosting the frontend on **Vercel** and **FastAPI** backend on **Render**

ADDITIONAL INFORMATION

Technical Skills: Python, Java, C, TypeScript, React, FastAPI, Django, Next.js, HTML/CSS, SQL

Libraries and Tools: yfinance, D3.js, Supabase, Azure OpenAI Service, Azure Communication Services, Git

Languages: English (native), Bengali (native), Hindi (native), French (intermediate)

Other: U.S. Citizen