

Kurtik Appadoo

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EDUCATION

Union College, NY

Schenectady, NY

Bachelor of Arts in Computer Science & Economics Double Major

Aug. 2021 – June 2025

Relevant Coursework: *Data Structures and Algorithms, Software Engineering, Programming Languages, Data Visualization, Databases, Natural Language Processing, Computer Architecture, Machine Learning*

Honors: *Computer Science, Economics, Dean's List, Omicron Delta Epsilon Alpha Beta, Order of Omega Eta Tau*

EXPERIENCE

Python Intern

Oct. 2021 – Dec. 2021

Truefort Inc

Weehawken, NJ

- Developed and optimized Python scripts to automate data collection and processing workflows using Object-Oriented Programming (OOP) principles, resulting in a 30% reduction in manual processing time.
- Collaborated with Senior programmers to build Python-based executables, applying OOP design patterns and adhering to best coding practices such as SOLID principles and DRY.
- Utilized Python libraries such as unittest to create comprehensive unit tests, ensuring code reliability and maintaining a 95% test coverage across multiple projects

Research Testing Engineer

Sep. 2024 – Dec. 2024

Union College, NY

Schenectady, NY

- Directed comprehensive testing initiatives for a Python-driven research project, orchestrating the creation of 1000+ tests to enhance algorithmic performance and precision.
- Pioneered the research and deployment of advanced algorithms for optimal matching in d-partite graphs, significantly contributing to both the coding and theoretical advancements
- Co-authored a research publication, meticulously documenting methodologies and discoveries, while exemplifying leadership and proactive collaboration within the research team

Data Engineer

July 2024 – Dec. 2024

Foppiani Shipping & Logistics US inc

Jamaica, NY

- Engineered a dynamic web platform using React and the Google Maps API to visualize 1.5 million consignees on an interactive map. Optimized API calls to retrieve unique data efficiently, minimizing redundancy and enhancing performance
- Processed and cleaned large-scale shipping datasets using Python and R, applying ETL pipelines to ensure data integrity and seamless integration into the platform.
- Deployed the application using Firebase, utilizing Firestore for scalable data storage and real-time querying, enabling multiple users to seamlessly access detailed consignee and shipment information

PROJECTS

Crypto Arbitrage Tracker | *React Native/ Expo, Flask, Tailwind CSS, Node.js, Socketio*

Sep. 2024 – Present

- Engineered a real-time full-stack application incorporating WebSocket integration with CoinAPI and xChangeAPI, enabling the detection and visualization of cryptocurrency arbitrage opportunities across multiple exchanges and digital assets.

Website Portfolio | *Git, React, TailwindCSS, Firebase, JWT, Django, three.js*

Feb 2025 – April 2025

- I developed a full-stack portfolio website featuring a visually appealing frontend that highlights my skills and experiences. Additionally, I built an admin portal integrated with my backend, enabling live content editing post-deployment through a custom API. The backend seamlessly interacts with Firebase cloud services to manage updates efficiently.

TECHNICAL SKILLS

Languages: Python, R, Java, C/C++, SQL, Javascript, Typescript, Assembly, HTML, CSS

Frameworks: Node.js, JUnit, React, React Native, Next.js, Django, Express.js, Spring Boot, Flask, TailwindCSS

Developer Tools: Git, Docker, Google Cloud Platform, VSCode, PyCharm, IntelliJ, Supabase, Firebase, Cursor, Postman, Rstudio, LaTeX, Gradle, Maven, Tableau, Logisim, Qtspim