

Kurtik Appadoo

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EDUCATION

Union College, NY

Bachelor of Arts in Computer Science & Economics Double Major

Schenectady, NY

Aug. 2021 – June 2025

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

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

EXPERIENCE

Python Intern

Truefort Inc

Oct. 2021 – Dec. 2021

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

Union College, NY

Sep. 2024 – Dec. 2024

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

Software Engineer

Foppiani Shipping & Logistics US inc

July 2024 – Dec. 2024

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 datasets using Python and R, ensuring data accuracy and readiness for web integration, while optimizing workflows to manage millions of shipping records.
- 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.

Admin and Grading Website | *Supabase, GraphQL, Next.js, Tailwind CSS, Git*

April 2024 – June 2024

- Oversaw backend and database development for a 14-member full-stack team at Union College, delivering a functional, user-friendly Gradescope-like UI with seamless user interactions. Focused primarily on the Backend, utilizing GraphQL queries to ensure efficient frontend integration.

TECHNICAL SKILLS

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

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

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