Olivier John Ndjike Nzia

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Education

Northeastern University | Khoury College of Computer Sciences   **Sep 2021 - Present**
Candidate for B.S in Computer Science   **Expected: May 2025**
- GPA: 3.8/4.0, Honors college, Dean's List
- Coursework: Object-Oriented Design, Algorithms and Data Structures, Computer Systems, Networks and Distributed Systems, Discrete Structures, Logic & Computation

Jack E Singley Academy   **Aug 2017 - May 2021**
National Merit Scholarship Recipient, QuestBridge Finalist, Magna Cum Laude, top 15% of class

Projects

Little Lens | ReactJs, JavaScript, GraphQL, Sanity.io, GROQ, TailwindCSS   **Apr - Jun 2023**
- Developed a responsive social media application with image sharing, search querying, commenting, sharing, and a live-updated feed
- Implemented a backend database using GraphQL and GROQ to send queries through the Sanity.io service
- Enabled authentication through Google OAuth to securely store user data for login/logout

Arnold the Astronaut | Java, Twitter4j, Rest API   **Jan - Feb 2023**
- Deployed an "Astronaut" bot that tweets NASA pictures and commentary
- Applied Twitter API and "Twitter4j" to like, retweet, and comment on related space-ex posts
- Applied NASA API to either grab random photos of space, or choose pics from specific dates

Unix Shell | C, Linux   **Feb 2023**
- Developed a command line interface to parse, interpret, and execute command line arguments
- Implemented system calls, sequencing, input/output redirection, and piping

Candid Conversations | Python, Sockets   **Dec 2022 - Jan 2023**
- Built a ChatRoom application allowing for text communication between multiple clients
- Applied TLS encryption protocol for secure package transfers between clients and server
- Currently implementing a GUI to allow for user interface interactions

FTP Client | Python   **Sep - Oct 2022**
- Developed a protocol to communicate with an FTP server and perform various file manipulations.
- Implemented common command line arguments to control local and remote files
- Strengthened proficiency in Python, network code and command line scripting

Polished Pixels | Java, Swing   **Oct - Dec 2022**
- Built an image processing Application with text-based and GUI interaction capabilities
- Implemented 11 different image manipulations and filters using kernels and convolution matrices
- Supported importing and exporting images in multiple different file formats

Resume Scraper   **Aug 2022**
- Extracted information such as name, GPA, major, etc. from a large folder of resumes, to be exported and sorted inside of an excel file
- Utilized Python, Regex, and file parsing to store and analyze data

Work Experience

Teaching Assistant for Discrete Structures, Khoury College of Computer Sciences   **Boston, MA**
- Host biweekly Office hours and tutor students individually in discrete structures concepts   **Sep 2022 – Dec 2022**
- Collaborate with a large team to support professors with teaching and grading efforts

Technical Skills

Languages: Java, JavaScript, Python, C/C++, SQL, GraphQL, Unix Shell, HTML/CSS, Assembly, VBA
Technologies: ReactJS, Git, Bash/Zsh, JUnit, Swing, IntelliJ IDEA, PyCharm, Excel, Linux, Windows