

# OLIVIER JOHN NDJIKE NZIA

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## EDUCATION

### Northeastern University

Boston, MA

*B.Sc. Computer Science | GPA: 3.6*

*Expected May 2025*

- Relevant Coursework: Object-Oriented Design, Algorithms & Data Structures, Computer Systems, Networks & Distributed Systems, Discrete Structures, Logic & Computation

## TECHNICAL SKILLS

**Languages:** Java | TypeScript | Python | C/C++ | SQL | GraphQL | Unix Shell | HTML/CSS

**Frameworks/Technologies:** React | Next.JS | Express | PostgreSQL | Git | Bash/Zsh | Redis

## EXPERIENCE

### Generate Product Development Studio

Aug 2023 - Present

*Software Engineer*

*Boston, MA*

- Build Compound, a full-stack financial literacy application tailored to users' priorities and existing experience
- Develop API endpoints using NextJS and NextAuth to transfer data from Prisma and PostgreSQL database
- Construct E2E tests with JEST to simulate and ensure seamless user flows as well as secure data transfers

### Khoury College of Computer Sciences

Sep 2022 - Dec 2022

*Teaching Assistant for Discrete Structures*

*Boston, MA*

- Assisted in teaching Discrete structures concepts such as combinations, graphs, and logical statements
- Offered individualized and group-led guidance and clarification to students during office hours
- Conducted review sessions and recitations to reinforce key concepts for key exams and assignments

## PROJECTS

### Taskmaster | *PostgreSQL, Next.js, Node.js, Express, Redis*

[GitHub](#) | Jun 2023 - Aug 2023

- Engineered a full-stack issue and project management interface that enables users to create, assign, and track projects, tickets, and bugs using Agile and SDLC methodologies
- Designed a relational database normalized up to 3NF using PostgreSQL to securely and efficiently store app data
- Implemented caching and cache invalidation through Redis to control traffic to PostgreSQL database, and improve app responsiveness while maintaining data integrity and validity
- Leveraged Express to build and optimize REST API routes allowing CRUD operations in PostgreSQL database
- Implemented authentication and role-based authorization by using hashes to enforce separate levels of privileges

### Little Lens | *ReactJs, JavaScript, GraphQL, Sanity.io*

[Live Demo](#) | Mar 2023 - Jun 2023

- Developed a responsive image sharing web application with search querying, commenting, and a live feed
- Designed schemas in 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 and manage sessions for login/logout

### Arnold the Astronaut | *Java, Twitter4j, Rest API*

Jan 2023 - Feb 2023

- Deployed an "astronaut" twitter bot that posts space related media and interacts with human users
- Queried the Twitter API through Java and Twitter4j to like, retweet, and comment on related space-ex posts
- Applied NASA API to grab random photos of space, and choose pictures from specified dates

### Candid Conversations | *JavaScript, Python, Sockets*

[GitHub](#) | Dec 2022 - Jan 2023

- Built a socket-enabled chat room application allowing for text communication between multiple clients over LAN
- Enforced TLS encryption protocol onto sockets to securely transfer data packets between server and clients
- Integrated an intuitive UI through JavaScript to further advance user interactions

### Polished Pixels | *Java, JUnit, Swing*

Oct 2022 - Dec 2022

- Developed an image processing application with 11 different image filters using kernels and convolution matrices
- Implemented an intuitive CLI and a Swing GUI to enable interactions with the processor
- Streamlined conversions between different image formats to support seamless imports and exports
- Utilized JUnit and mock classes to test classes and interactions between model, view, and controller packages