

# Zongxin Ouyang

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## EDUCATION

### New York University

*M.S. in Computer Engineering, GPA:3.77*

New York, NY

*Dec 2024*

### University of Georgia

*B.S. in Computer Science, GPA:3.70*

Athens, GA

*Dec 2022*

## EXPERIENCE

### Delxue

May 2024 – Aug 2024

*Software Engineer Intern*

*Atlanta, GA*

- Designed and implemented Terraform templates to automate the creation of **AWS S3 buckets**, enhancing data storage solutions.
- Implemented **AWS Lambda** event handler for efficient data processing across multiple AWS cloud resources using **python and Boto3**.
- Developed CI/CD pipelines utilizing **Harness.IO**, **Docker** to streamline testing and deployment process and improved code integration and delivery efficiency, reduced deployment time by 30%.
- Automated infrastructure provisioning and configuration using **Terraform** ensures consistency across all environments.

### University Of Georgia

Sep 2022 – Dec 2022

*Web Developer*

*Athens, GA*

- Participated in end-to-end development of a web platform for a student organization, significantly enhancing online community engagement by 50%.
- Designed and implemented a seamless user interface with intuitive navigation, using **React**, **React Router**, **HTML**, **CSS** and **Bootstrap**.
- Implemented backend **RESTful API** for data processing and authentication using **Node.js**, **Express**, **MongoDB**.
- Constructed a backstage content management system enabling officials to dynamically control web content.

### Neteast Technologies

June 2022 - Aug 2022

*Software Engineer Intern*

*Remote*

- Transformed wireframes and mockups into highly responsive, mobile-friendly web applications utilizing **React**, **TypeScript**, **HTML**, **CSS**.
- Incorporated **Redux** as a state management tool to manage and centralize complex application states.
- Integrated **WebSockets** to facilitate real-time data synchronization, supporting concurrent access and collaboration among multiple users.
- Enhanced rendering performance by developing custom hooks and utilizing React's built-in APIs, effectively minimizing costly recomputations and boosting overall application responsiveness.

## PROJECTS

### React Muisc App | *React, TypeScript, vite, zustand, axios, Radis-UI, Tailwind*

Oct 2024

- Designed and implemented a modular and scalable frontend architecture using React and TypeScript.
- Developed custom hooks to achieve functionalities such as search, authentication, and data retrieval, enhancing code reusability and maintainability.
- Integrated Netease Music APIs to fetch and display dynamic music content, including playlists, albums, track using **react-query** and **axios**.
- Github: <https://github.com/tomatooy/react-music> Demo: <https://react-music-rose.vercel.app/>

### Meet:Social Media Website | *React,Redux,Node.js,Express,Socket.IO,MaterialUI*

Aug 2023 - Dec 2023

- Developed a full-stack social media platform project, allowing users to connect, share posts, and engage through comments, likes, and live-time messaging.
- Implemented Real-time chat room and chat history synchronization using **socket.io** and **Express**.
- Used Bcrypt for information encryption and Morgan for login token generation.

## TECHNICAL SKILLS

**Programming Languages:** Typescript, Java, Javascript, Python, C++

**Frameworks and Tools:** React, Node.js, Springboot, Tailwind, Redux, XAMPP Git, Docker, AWS, Harness.IO, MongoDB, MySQL, PostgreSQL, Terraform