

Zongxin Ouyang

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EDUCATION

New York University

M.S. in Computer Engineering, GPA:3.73

New York, NY

Dec 2024

University of Georgia

B.S. in Computer Science, GPA:3.70

Athens, GA

Dec 2022

EXPERIENCE

Deluxe

May 2024 – Aug 2024

Software Engineer Intern

Atlanta, GA

- Developed a high-throughput, serverless data pipeline using **AWS Lambda and DynamoDB**, reducing operational costs by **30%** and improving data processing latency by **50%**. Leveraged DynamoDB Streams to trigger real-time data transformations and integrated with **AWS Kinesis** for scalable ingestion.
- Designed and implemented Terraform templates to automate the creation of **AWS S3 buckets**, enhancing data storage solutions.
- 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.
- Actively participated in Agile methodology, contributing to sprint planning, daily standups, and retrospective meetings in order to ensure continuous improvement.

University Of Georgia

Sep 2022 – Dec 2022

Web Developer

Athens, GA

- Participated in full-stack development of a dynamic web platform for a student organization, boosting online community engagement by 50% through real-time updates and interactive features.
- Architected a responsive front-end using **React, React Router, HTML5, CSS3, and Bootstrap**, improving user satisfaction with intuitive navigation and a modern interface.
- Developed **RESTful APIs** using **Node.js and Express**, secured with robust authentication logic and integrated with **MongoDB** for low-latency data storage.
- Built a role-based content management system enabling organization officials to update web content instantly, reducing maintenance overhead by automating manual tasks.
- Optimized front-end performance by refactoring components with React Hooks to reduce unnecessary re-renders, resulting in a **40%** faster load time and improved user experience.

PROJECTS

Web Music App | *React, TypeScript, vite, zustand, axios, Radix-UI, Tailwind*

Oct 2024

- Engineered a modular, scalable front-end architecture using **React and TypeScript**, enabling rapid feature development and maintainable code structure.
- Developed reusable custom hooks to centralize logic, reducing code redundancy and simplifying complex workflows.
- Integrated Netease Music **APIs via React Query and Axios**, providing dynamic playlists, albums, and tracks with responsive UI updates and client-side caching for improved performance.
- Leveraged Radix-UI and Tailwind CSS for a consistently styled, accessible UI, creating an elegant listening experience and improving user satisfaction.

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

Aug 2023 - Dec 2023

- Built a feature-rich social media platform allowing users to create profiles, share posts, leave comments, “like” content, boosting community interaction.
- Implemented real-time chat rooms and chat history synchronization using **Socket.IO**, ensuring seamless communication and a highly interactive user experience.
- Established secure authentication flows with **Bcrypt** for password hashing and token-based security, safeguarding user data and preserving privacy.
- Incorporated **Morgan** for detailed request logging, simplifying debugging and enhancing visibility into server operations.

TECHNICAL SKILLS

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

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