Zongxin Ouyang

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EDUCATION

New York University   New York, NY
M.S. in Computer Engineering, GPA:3.63   *Dec 2024*

University of Georgia   Athens, GA
B.S. in Computer Science, GPA:3.70   *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.
- Identified and resolved cloud infrastructure and application vulnerabilities by intergating **WizScan and SonarQube** into CI/CD pipeline.

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 | *React, TypeScript, vite, zustand, axios, Radis-UI, Tailwind*   Oct 2024

- 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**.   .
- Designed and implemented a modular and scalable frontend architecture using React and TypeScript.
- Github: https://github.com/tomatooy/react-music   Demo: https://react-music-rose.vercel.app/

UGA CSSA Website | *React,MongoDB,Node.js,Express,Bootstrap*   June 2022 - Dec 2022

- Orchestrated the 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.
- Repo: https://github.com/tomatooy/CSSAUGA

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, PostgreDB, Terraform