

Yuan Meng

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WORK EXPERIENCE

Zoom Video Communication Inc.

Software Engineer

San Jose, CA

July 2022 – present

- Design general pattern for handler and producer by using **AsyncMQ and Kafka** transport messages from micro-service to main platform for **AAA (Active-Active-Active) Cache**, vice versa, upgrade the **fault tolerance** from **3 different regions** (va1, va2, oh1) in AWS, **improve code management** and **code base maintenance**.
- Collaborated with the UI/UX team to design **full-stack feature** recommend templates for branding, enabling users to quickly apply different styles to their events. **Improved user experience by 100%** for users without specific domain knowledge.
- Worked with front-end teammate to work on **Image/Video background features**, allowing users to customize their own event backgrounds to show up in lobbies and attendee sides, **80% of existing business customer** had use this feature in their event.
- Initiated **POC (Prove of Concept)** for Email Builder feature which is build email by **6 different area** including **font, size, text color, layout** etc, give customer **up to 100% flexibility** for build different email styling.
- Maintain **micro-service with core-platform**, and using **RESTful API** to keep data standalone in the micro-service
- Designed and initiated Zoom Events features, working collaboratively with both front-end and back-end positions. Shared ideas across different teams to help improve existing unit testing coverage in the microservice.

University at Buffalo

Research Assistant

Buffalo, NY

September 2021 – June 2022

- **Build** HTTP file transfer method by using **Spring Boot, Spring Batch** to transmit up to **1TB** volume data and **low error rate as 5%** in time estimated over endpoints and protocols.
- OneDataShare project: data transfer pipeline using **Java Spring framework** to transfer between **7 types** endpoints and protocols using strategies such as Network Pipelining, Concurrency, Parallelism.
- Maintained the production and development transfer pipeline between 7 types endpoint protocol types: **DropBox, Google Drive, Grid File Transfer Protocol, File Transfer Protocol, Secure File Transfer Protocol, SSH, HTTP**.

COMPUTER SCIENCE PROJECTS

ToDo List website: React, Python, MongoDB, AWS, JWT, SocketIO API, RESTful API

May 2021 – July2021

- Developed by **Python, React.js** and project deploy on Github Page and **AWS EC2** be able loading around **millions of people** without server crash
- Improved data **accuracy by 50%** by creating schema on **MongoDB** with key, value pair for improving data visualization and code maintenance.
- Managed a client contact and resulted in a **58% increase** in API communication and performance.
- Leveraged Restful API associate with client and server, **WebSocket** technology for updated event at real-time and synchronization with different user, **optimized the connection performance by 20%** and upgrade UX.

SKILLS & TOOLS

Languages: Java, Python, Scala

Data analytics: SQL, NoSQL, CockroachDB, MySQL, MongoDB

Web development: Flask, Spring, HTML, JavaScript, React.js, Docker, AWS, Maven, JWT

EDUCATION

University at Buffalo, The State University of New York

August 2018 - June 2022

Bachelor of Science, Computer Science

Relevant coursework: Data Structures, Algorithm and Complexity, Introduction to Web Development, Software Concept, Project Management, Distribute System.