

Zuyi Chen

(847) 867-0819 | zuyichen@gmail.com

Work Experience

University of Chicago Biological Science Department

July 2021 – current

Backend Software Engineer

- Development of workflow execution service from scratch to facilitate genomics big-data analysis on 870,000 patients for the department of Veterans Affairs. The service is built as a Kubernetes native application written in python with AWS-gateway as storage.
- Creating and maintaining CI/CD pipelines via github actions. Steps include: lint, build, unit test, integration test, and push image to quay repository.

Radix Trading

Mar 2021 – July 2021

Quantitative Technologist

- Optimized transfer, deduplication, and backup of hundreds of Terabytes of stock exchange data that is collected daily. This reduced golden data set creation time from 4 days to 1 day. The occurrence of data gaps was reduced by 35%.
- Expanded trading infrastructure in China to include stock futures for Shenzhen exchange. Worked closely with foreign partners, government regulators to build from grounds up a new system with 2 million USD capital.

Relativity ODA LLC

June 2019 – Mar 2021

Software Engineer

- Rewrote legacy enterprise applications to increase build stability. Code and branch coverage increased to 80% or above, end to end tests added, documentation created.
- Migrated CI/CD Jenkins Pipelines from on-premise to cloud-based AWS. Used a combination of Chef Script and Groovy to create fast deployment and tear down of build infrastructure. It resulted in fast concurrent builds, 20-30% decrease in flaky tests, and improved error logging.
- Implemented a central library for displaying and filtering various data-types as list rows with typescript. Data-types include raw HTML, time-zone specific dates, text, web links, etc.

Education

University of Illinois at Urbana-Champaign

Master of Science in Computer Science. (3.89/4.00)

University of Illinois at Urbana-Champaign

Bachelor of Science in *Computer Science*, (3.56/4.00)

Edmund J. James Scholar, College of Engineering Dean's List

Skills

- Programming Languages: Python, TypeScript, Java, C#, Git
- Web Development: , HTML5, CSS, MVC/MVVC models
- Database: MySQL, postgresql
- DevOps: Docker, Kubernetes, Jenkins, Groovy, bash, Chef
- OS platform: Linux, Windows

Volunteering

- InSpiritAI summer program (2021)
 - Taught 2 classes of 10 students a 5-week curriculum on AI and machine learning.
- Girls Who Code (2016 – 2019)
 - Taught 3 cohorts of 30+ students programming fundamentals.