Yang Qi

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EDUCATION

University of Utah	**Salt Lake City, UT**
Master of Computer Software Engineering	Aug. 2021 - May 2023
University of Electronic Science and Technology	**CHINA**
Bachelor of Mechanical Design, Manufacturing and Automation	Sept. 2010 - June 2014

WORK EXPERIENCE

University of Utah   **Salt Lake City, UT**
Creativity Innovation Specialist   Apr. 2022 - Present

- Worked with a team of 4 to utilize **Jira REST API** to build apps and scripts based on **Flask** framework to automate a 3D printing lab, including submitting, printing, and auto payment systems, resulting in running the lab from regular hours to 24/7 efficiently.

Enveda Biosciences   **Salt Lake City, UT**
Software Engineer Intern   May 2022 - Aug. 2022

- Built **ETL** pipelines with **CI/CD** practices to process multiple data streams to nominate high-confidence therapeutic hypotheses and target candidates using **AWS Lambda**, **Amazon CloudWatch**, **Dockerizing**, **ECR**, **S3**, **and Athena**; pipelines resulted in increasing processing efficiency by >50% in core workflows.
- Developed a new web application to interact with the knowledge gained from Enveda's novel machine learning inference using **Python**, **Streamlit**, **Rdkit**, and **Poetry**; this application deployed on **AWS EC2** was utilized by >100 internal users and external clients.

WPG Smart Water Public   **Shanghai, CN**
Project Manager   Dec. 2015 - Dec.2017

- Won a bid worth 1.5 million for developing a smart water supply management platform.
- Worked with 6 stakeholders (including engineering and product teams) to improve deployment efficiency by 30% using **Agile** development to design the software system.

PROJECTS

Backend Project - Django Twitter   https://github.com/YangQi007/django-twitter

- Used push model to **Fan-out** news feeds.
- Applied **Redis** and **Memcached** to reduce direct reads and writes to DB; utilized Key-value store **HBase** to split DB queries for tables with fewer reads and lot writes.
- Implemented **denormalization** to store the number of comments and likes to reduce DB queries; employed **Message Queue** to deliver asynchronized tasks to reduce response time.

Language Interpreter   https://github.com/YangQi007/msdscript

- Created a language interpreter based on **C++** used as an executable program or a library; implemented features including parsing, arithmetic/logical operations, variable comparison, and function execution.
- Utilized **Unit test** tools and wrote comprehensive documentation.

SKILLS

- **Programming Languages:** Python, Java, C++, Kotlin, Javascript/HTML/CSS
- **Frameworks/Tools:** Django, React, Docker, MySQL, Redis, Hbase, Memcached, AWS, Android, Git, Poetry, Linux, agile