

# TAO ZHAO

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Dear hiring manager,

Please accept this application for the position of Software Solutions Specialist (Job ID: R-0000015484) at Federal Reserve Bank of New York. As a 10 year experienced software engineer with a background in software design and implementation, I am confident that I have the skills and experience necessary to excel in this role.

As a senior software developer, I research the complexity of projects, design streamlined and feasible solutions, and provide time estimates for completion. I have advanced proficiency in modern programming and scripting languages such as Java, PHP and JavaScript. I worked on the data integration projects with the SOA architecture based on Java Message Service (JMS), as well as the microservice architecture built upon Eureka server and REST API. I also had gained solid experience in NoSQL storage and DevOps when working on the microservice projects. Finally, I have hands-on experience with the AWS cloud technologies. I run the digital repository application at the Minneapolis office on the AWS GovCloud, as well as the special digital collections at the University of Oklahoma on AWS cloud.

I enjoy solving problems and providing customers and colleagues with efficient and convenient services. In a recent project, I significantly enhanced the transmission of big data through networks using a combination of approaches: data compression, network response caching, data indexing and paging, re-formatting data to reduce unnecessary boxing/unboxing, etc. I also improved the generation of digital books in the open-source repository platform Islandora, by using existing smaller derivative images, instead of generating them in real time, which reduced generation time by 80%.

I am excited about the opportunity to be a part of the team of Market Operations at the New York Office. My strong experience in software engineering and different technology stacks makes me a perfect candidate for this job—and I trust you'll find me to be a pleasant and productive co-worker.

Thank you for your time, and I look forward to discussing my qualifications further.

Yours sincerely,

Tao Zhao