Dear Hiring Manager,

I am writing to express my interest in the software engineer position at your company, as advertised. With a strong educational background in computer science and hands-on experience in software engineering and cloud platforms, I am confident in my ability to contribute effectively to your team.

I graduated from Northeastern University in Vancouver, Canada, where I honed my skills in various programming languages such as Java, Go, Python, C/C++, TypeScript, and more. My academic experience has provided me with a solid foundation in distributed systems, cloud computing, and database management.

My proficiency extends to a diverse set of tools and technologies, including AWS, Spring, Junit, React, Redux, Git, Docker, Kubernetes, Helm, Node, Express, Kafka, Ansible, Elasticsearch, Logstash, Kibana, and more. During my internship at Index Exchange as a Software Engineer Intern in the Cloud Platform team, I played a key role in an open-source project involving Hashicorp Vault, where I automated CI/CD pipelines and streamlined Vault approle and policy creation using Ansible playbooks and Python scripts. I have successfully spearheaded the implementation of a Vault log monitor pipeline, integrated ArgoCD for automatic secret rotation, and contributed to user secrets management.

I have actively participated in challenging projects that demonstrate my ability to design and implement complex systems. Notably, I led the development of a fault-tolerant sharded key/value-service system using Go, incorporating Raft for replication, log compaction, and snapshot functionality. In another project, I implemented a multi-threaded client-server communication system in Java, enhancing fault tolerance and consensus through the Paxos protocol.

One of my significant contributions includes developing a full-stack E-Commerce application using microservices with Node, React, Docker, and Kubernetes. I utilized React, Hooks, and Next.js for a seamless user experience, orchestrated deployment within Docker containers on a Kubernetes cluster, and leveraged AWS for efficient deployment and hosting.

I am excited about the opportunity to bring my technical skills, innovative mindset, and commitment to excellence to your company. I am confident that my diverse skillset and hands-on experience make me a strong candidate for the software engineer position.

Thank you for considering my application. I look forward to the possibility of discussing how my skills and experiences align with your team's goals in more detail.

Sincerely,

Siyang Zhang