# Zezhi Xia

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**Objective:** Seeking a full-time Software Engineer Position

## SKILLS:

- **Programming Language:** Java, Swift, JavaScript, Python, C
- **Framework:** Spring Boot, Cocoa Touch
- **Database/Data store:** SQL, NoSQL, Hibernate, Redis
- **Cloud Platform & CI/CD:** Pivotal Cloud Foundry, AWS, Docker, Kubernetes, Jenkins, Travis
- **Stream/Message Broker:** Kafka, Rabbit MQ

## WORK

**Technical Consultant @ Perficient, Inc** (Sep. 2019 – Present)

- Produce software solutions to clients utilizing different cutting-edge technologies and programming languages such as Java, Spring Boot, AWS, Pivotal Cloud Foundry, Kubernetes, Redis etc.
- Help clients move to cloud platforms by restructuring their monolithic applications into microservices.
- Work on internal projects such as writing technical blogs or doing code demonstrations to help new colleagues get familiar with the technology they are going to use.
- Keep researching and learning new technologies to prepare for helping solve new client challenges.

## PROJECTS

**Ramp Software @ Perficient, Inc** (May 2021 – Present)
**A Java2E based web application that rewrites DHL's entire monolithic package/mail delivery system including alert, billing, receiving, sorting, manifesting, encoding etc.**

- Worked in a very rapidly moving environment and utilized Java 11, Spring Boot, Kafka, Docker, OpenShift and REST API to develop the application.
- Implemented Kafka Consumer to receive and process package information from different microservices and save processed data to SQL database.
- Implemented Kafka Producer to publish updated package & customer data to different microservices.
- Implemented new endpoint for retrieving, creating, and updating package & customer information along with exception handling and recovery mechanisms such as circuit breaker.
- Implemented local cache for faster data retrieval.
- Utilized Mockito framework for unit, integration, and resilience tests.
- Utilized Java Stream and libraries such as Vavr for more readable and robust code implementation.

**KP.org Admin Tool @ Perficient, Inc** (Apr. 2020 – Present)
**A Java2E based web application for Kaiser Permanente customer support agents to record, track and modify Patients' information.**

- Utilized Java 8, Spring Framework, SQL, Microservice, and REST & SOAP API to develop the application.
- Created new REST endpoint to enable new services such as Multi-Factor Authentication.
- Utilized different design patterns to produce codes that fit different scenarios.
- Worked with different service teams to understand the requirements and make adjustments according to their APIs.
- Developed new features such as enabling registration for patients in different regions and enabling adding proxies for patients.

- Worked in Agile methodology and utilized tools such as Jira, Confluence to build stories and track progress.

**Digital Transformation @ Perficient, Inc** (Sep. 2019 – Apr. 2020)
**A Java2E based web application for First National Bank of Omaha that replaces the paper operation of sending fund-transfer ping to customers.**
- Worked with business department to design the workflow and components of the web application.
- Utilized Java 8, IBM Queue, MySQL, Microservice and Spring Boot framework to develop the messaging queue, Orchestrator API of the application.
- Leveraged Docusign API to deliver the ping emails to customer.
- Leveraged Pivotal Cloud Foundry to deploy the application.

**SPEAKall! @ Rose-Hulman Institute of Technology** (Sep. 2018 – May 2019)
**An iPhone application that helps Children with moderate-to-severe autism communicate with other people**
- Leader of the project, responsible for the entire development cycle, including communicating with client who is a Purdue Professor, writing use cases, prototyping, risk analysis, implementation, testing and etc.
- Implemented the UI of the application using Apple's UI kit and Auto Layout with Swift.
- Implemented the database of the application using Apple's Core Data.
- Implemented different design patterns such as MVC, Observer, Template etc.

## EDUCATION

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| Sep. 2015 – May 2019 | **Computer Science, Bachelor of Science** |
| | *Rose-Hulman Institute of Technology, Terre Haute, Indiana* |