

Joe Qiu

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PROFESSIONAL SUMMARY:

- **3 years of full stack experience in developing Web based and distributed J2EE Enterprise Applications** and expertise in implementing **Object Oriented Programming (OOPS) with Java**.
- Hand on experience with **RDs database setting, configuration and connecting** to local database by **Oracle SQL, PostgreSQL and MySQL**.
- Solid knowledge in **NoSQL**, proficient in management genomic sequence information by **MongoDB**.
- Experienced in **Spring Boot, Spring MVC, Hibernate**.
- Hand on experience of http Server set up, maven project builds and access the database by **Restful API**.
- Handle the daily DevOps tickets on **Jira** platform, Active participation in the **sprint** and daily **scrum**.
- Hand on experience in **GitHub/bitbucket**.
- Proficiency in Front-end development skills using scripting languages like **HTML5, CSS3, JavaScript, AJAX, JSON, JQuery, DOM** and **Bootstrap**.
- Experience in **NodeJS, ReactJS**.
- Familiar with **Angular framework to build the MVC project**.
- Performed **Unit testing** of different department's modules using **JUnit**.
- Leverage troubleshooting, problem solving, capacity to work independently or as part of a team and ability to conduct emerging technology research to expand organizational capabilities.
- Proficient in learning new technologies and quickly adapting to new environment.
- Experience in Development and Documentation throughout the entire SDLC.
- Self-motivated and proven ability to work independently or in a team environment.

PROFESSIONAL EXPERIENCE:

PierianDx, St. Louis, MO

Nov. 2019 --Mar. 2021

Solutions Engineer

Developed and updated the Clinical Genomic Workspace (CGW); designed and implemented the in-house API which allowed access from multiple users (bioinformatician, doctor, patients, etc.) to process and view data through CGW website. Developed plugins that render personalized Genomic sequences analysis report for bioinformatician, genomic scientist or pharmaceutical clients to review.
<https://www.pieriandx.com>

- Designed and developed the new widget for CGW.
By accessing **Widget**, customers can edit reports on the client-side webpage. The platform can either export the pdf or word format report or render the json format result. According to the different customer's request, I designed the json output scheme and implemented with java widget render. I took charge of data fetching from website API calling followed by data-based mapping and remapping. The main technologies I used include **Spring boot, Spring MVC, Hibernate, groovy, FTL, HTML, CSS, AngularJS, Java script engine (Nashorn), JSON, jQuery, DOM, Restful API, cloud base CI/CD and Microservices, Postgres and MongoDB**.
- Developed and maintained "runUploader" API to handle all kinds of bioinformatic files such as Bam, VCF, Fasta, xlsx, csv, etc., In charge of problem solving for unexpected internet interruption when uploading large files. The main technologies I used include **Object Oriented Programming (OOPS) with Java, Spring MVC, React JS, Hibernate, AWS S3, JUnit**.

- Designed a new pipeline, Ampliseq, configured json format data and yml files to implement the platform. Contributed innovation for a new pipeline to support Illumina TSO500 and TST170 platforms. The main technologies I used include **JSON, XML, NodeJS, TypeScript**.
- Follow up of the Trouble Tickets on **Jira** platform with the appropriate sections and Last Milestone Provider.
- Write the requirement documentation and software QSI.
- Review the code on **GitHub**.
- Write the **sprint** of the project, attending the daily **Scrum meeting**, update the project progress in **Jira**.
- Involved in the software delivery to **AWS** by Docker and **Jenkins**.

Revature LLC, Tampa, FL

Aug. 2019 -- Oct. 2019

Java Developer

- Back-end java development the Online bank system
- Designed the relational database, implement the **POJO** and **DAO** design patterns, connects with the AWS with **JDBC**.
- Deployed the application onto the **Tomcat Server**.
- Full stack development of Financial Reimbursement.
- Designed and implemented the back-end DAO, connect to the **Oracle** database.
- Built the front-end by **NodeJS and Angular**, design and implement the single page application.
- The main technologies I used include **Java, HTML5, CSS3, JavaScript, AJAX, JSON, JQuery, DOM and Bootstrap, NodeJS, Spring boot, Spring MVC, Hibernate, Oracle SQL, Restful API, MySQL, Github**.

Plastomic Inc St. Louis, MO

Nov. 2017 – Aug. 2019

Scientist II

- Bio-data collection and database maintenance.
- Cell Biology wet lab design and implementation.
- Molecular Biology bench research work.

Github <https://github.com/joeqiusec?tab=repositories>

Other experience

Work as scientific researcher in Molecular and Bioinformatics research, write code by **Java, Python, R** to analysis data, publish research papers.

EDUCATION:

- Master's Degree in software engineering, North Dakota State University, 2017, Fargo, USA. (3.67/4.0)

LICENSES & CERTIFICATIONS:

- Oracle Certified Associate, Java SE 8 Programmer
- MongoDB Certificate
- Postgres Certificate

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