Matthew Hao



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647-621-8968

Skills

Languages: Java, C/C++, Kotlin, Python (Less Experience): Golang, PHP, JavaScript, Typescript, HTML, CSS

Frameworks and Technologies: Spring, Spring Boot, MySQL, PostgreSQL, MS SQL Server

Tools: Git, Docker, Postman, Jenkins, Maven, Linux, Jira, Confluence

Experience

PointClickCare – *Software Engineer*

Jan 2023 - Apr 2023

- Designed and implemented an API endpoint with dry run functionality for reingestion of a list of patient resources using Kotlin and MS SQL Server, leading to an over 100% reduction in ingestion time of individual patients
- Reworked SQL gueries to fetch provenance data from MS SQL Server and created provenance resources using Kotlin including test cases, for over 10 resources, to comply with FHIR standards
- Updated various Maven dependency versioning while maintaining application functionality and performance to resolve over 15 critical, 30 high and 20 moderate security vulnerabilities

Zynga – Software Engineer, Core Architecture

May 2022 - Aug 2022

- Designed and implemented a code coverage report framework for Storage service using PHP as part of Storage rewrite, identified unnecessary code and improved code quality of rewritten service
- Implemented an integration test suite for Storage service using Golang to validate functionality of rewritten service and increased code coverage by over 80%
- Incorporated MinIo into Dockerized development environment to emulate AWS S3 functionality and tested archive restoration using the AWS Golang SDK

OpenText – Software Developer, Core Case Management

Sept 2021 - Dec 2021

- Architected, designed and implemented global dropdown list feature following Microservices and MVC design patterns using RESTful APIs in Java with Spring Boot and PostgreSQL, and tested APIs using Postman
- Resolved over a dozen user stories and tickets across frontend and backend case management applications involving Typescript, Java, Spring Boot
- Actively contributed to sprint planning, design meetings and sprint retrospectives in Agile SDLC process

OMERS – DevOps Engineer

Jan 2021 - Apr 2021

- Implemented 3 scripts in Java and Python to validate OMERS' user account data with considerations for business requirements and efficiency optimization
- Led team in Agile design and creation of Validity Check data transfer tool for migration of over 250 000 production user accounts to new Pingldentity database

Projects

Realtime Operating System Implementation – C

June 2023 - Aug 2023

Designed and implemented a multi-tasking kernel with built-in memory allocation, inter-task communication, and console I/O for ARM processors in C, using a highest-priority scheduling algorithm supporting pre-emption and blocking

Education

University of Waterloo April 2025 (Expected)

Candidate for B.A.Sc in Computer Engineering