TONG CHI

Ottawa, Ontario, Canada | +1 (613) 800-2444 | chi00011@algonquinlive.com
Portfolio: https://mxmtxt.com | https://worldofcodecraft.github.io | https://www.linkedin.com/in/tong-c

EDUCATION

Diploma, Computer Programming   **2022 - 2024**
Algonquin College, Ottawa
- GPA: 3.95/4.0
- Dean's Honours List
- Core Courses: Object-Oriented Programming (Java with Design Patterns), Database, Operating Systems (Linux), Web Programming, Network Programming, Mobile Graphical Interface Programing, Business Intelligence and Data Analytics

Diploma, Computer Science and Technology   **2016 - 2018**
Xi'an Jiaotong University, *Xi'an, China*

WORK EXPERIENCE

Software Developer   **Huayue Information Tech**   *Shanghai, China*   **2016 - 2022**
- Led the development of 5+ cross-functional teams across different domains, spanning onshore and offshore locations, ensuring seamless communication and collaboration.
- Implemented optimization strategies resulting in a remarkable 60% reduction in resource usage, leading to substantial cost savings and improved system performance.
- Conducted over 1 million queries with 1ms response times, ensuring efficient data retrieval and processing.
- Developed a robust functionality that utilized API calls to collect over 5,000 customer data related to infrastructure configurations, resulting in a remarkable 55% increase in adoption rates among existing customers.
- Designed and developed an automated product change workflow management system, empowering engineers to make swift design changes and saving over 5 hours per week.
- Produced 100+ valuable project-specific assets, including product requirement document, software architecture design document, source code document, test case specifications, end-user documentation.
- Delivered 7 releases involving System Integration Testing and User Acceptance Testing (UAT) with no delay.

PROJECTS

Microservice and Spring Boot | GitHub Link
A cloud project aims at streamlining medium-sized Microservice and Spring Boot development. Empowers developers to effectively build and scale microservices applications with rapid CI/CD.
- Optimized the build process using multiple layers, resulting in a streamlined Java Docker image that operates efficiently within a memory resource of just 100MB.
- Incorporates a dual-database (MySQL, MongoDB) approach to cater complex transactions and to handle large volumes of semi-structured or unstructured data.
- Includes API discoverability features, simplifying the exploration and consumption of APIs for developers.
- Leverages Bash scripting to simulate API interactions, achieving coverage of over 90% of API features and facilitating comprehensive testing.
- Technologies: Spring Boot | Docker | Spring WebFlux | Springdoc-openapi | OpenAPI | Swagger | Spring Data | MongoDB | MySQL | Testcontainers | Spring Cloud Stream | AWS ECS | Virtualization

Product Change Management System
- Improved the system's scalability and performance, handled a 100% increase in change requests without any degradation in responsiveness.
- Led the integration of the system with 3 external systems, such as CRM and ERP systems, enabling seamless data synchronization and improving data integrity.
- Implemented role-based access control, ensuring data security and permissions while providing appropriate access levels to different stakeholders.

Parking Management System
- Designed a real-time occupancy tracking system, reducing parking lot congestion by 25% and improving customer satisfaction.
- Integrated license plate recognition technology, improving entry and exit efficiency by 30% and reducing instances of fraudulent activities.
- Spearheaded the integration of the parking lot management system with smart city initiatives, enabling seamless integration with public transportation systems and enhancing urban mobility.

SKILLS

Programming: Java|JavaScript|C#|Python|SQL|Git|Docker|Oracle|HTML|CSS|Shell|REST
Framework: Spring|Spring Boot|Spring Cloud|Servlet|JDBC|JCA|JQuery|J2EE|Maven|Gradle|JUnit
OS & Tools: AWS|Unix|Linux|Ubuntu|CentOS|Windows Server|Oracle|MySQL|JIRA|Confluence|Postman|Cisco Anyconnect
Additional Skills: English|Mandarin Chinese|CI/CD|Agile|Waterfall |IntelliJ IDEA|Eclipse|Android Studio|Visio

REFERENCES

1. **Malek El-Kouzi**, Program Professor, Algonquin College, Ottawa
   Email: elkouzm@algonquincollege.com, Mobile: 613-297-1733
2. **Melodie Wilson**, Program Professor, Algonquin College, Ottawa
   Email: wilsonm@algonquincollege.com, Mobile: 613-700-4197