

SOFTWARE ENGINEER

SOFTWARE DEVELOPMENT | QUALITY ASSURANCE | AGILE METHODOLOGY

SUMMARY OF QUALIFICATIONS

- A seasoned Software Engineer, with over 10+ years of industry experience, with experience in software development, quality assurance, and supporting each stage in the software development life cycle
- Holds a Master of Science - Computer Applied Technology; currently a student of Advanced Diploma in Software Engineering Technology and completion of ISTQB® Certified Tester Foundation Level 4.0
- Understanding of object-oriented programming, data structure, algorithms, design patterns
- **Backend Development:** Java/Spring/Spring Boot, C#, C/C++, NodeJS/Express
- **Frontend Development:** JavaScript/TypeScript, HTML, CSS, React, Angular
- **Database Technologies:** SQL, PL/SQL, Oracle9i, MySQL, MongoDB, SQLite
- **Version Control:** SVN, Rational ClearCase, Git, GitHub
- **Test Automation:** Selenium, Cypress, Postman
- Strong analytical and problem-solving skills, applied to complex and large-scale development projects
- Excellent time management and meet deliverables on time, while upholding high quality standards

PROFESSIONAL EXPERIENCE

Software Engineer | Molarray Research Inc., Richmond Hill, ON Aug. 2022 - March 2023

- Developed and maintained the application for automated molecular diagnostics devices
- **Frontend:** Designed web application for calibration, parameter setting, experiment setting, motor control for Liquid Handling System (LHS), Nucleic Acid Extraction (NAEx) processes
- **Backend:** Developed control system to organize actions of each part, such as motor, pipette, gripper, shaker, sealer, camera, scanner
- Implemented Agile (Scrum) methodology that includes sprint planning, daily stand-ups, estimating the tasks for the user stories, and retrospectives
- Deployed applications on Linux dev
- **Technologies:** Visual Studio, C/C++, C#, HTML, JavaScript, CSS/SASS, Bootstrap, Ajax, jQuery, JSON, SQLite, Linux, WinSCP, PuTTY, Git, Jira, Cypress

Full-Stack Software Engineer | Freelance, Markham, ON April 2020 - Aug. 2022

- Developed and maintained applications; implemented new features according to client specifications
- Performed bug fixes for existing applications and documented code using source control system
- Applied accessibility **WCAG 2.1 AA** knowledge and solutions to applications
- Developed an e-commerce application with MVC architecture with Angular and Java Spring Boot using Restful APIs and MySQL database
- Developed Restful APIs for applications with Spring Boot, Spring Security, JWT, Spring Data JPA (Hibernate), MySQL Database
- Implemented **automated tests (Selenium, Postman)** to validate functionality, performance, scalability
- Participated in design and review of test cases, test scenarios, and test plans
- Developed single page applications in React.js, such as company portals, a meal order platform, a real estate transaction, digital signature and book search platform
- Ensured performance, SEO, accessibility perform well in Lighthouse audit
- **Technologies:** IntelliJ, VS Code, Selenium, Postman, Java, Spring/Spring Boot/Spring Security/Spring JPA, React, Angular, HTML, JavaScript/TypeScript, CSS/SASS, Bootstrap, Ajax, jQuery, JSON, RESTful API, Git/GitHub, Junit, MySQL/MongoDB

Senior Software Developer | [ZTE Corporation](#), Nanjing, China July 2006 - Oct. 2018

- Developed and maintained internal management (financial reimbursement, forum, peer technical review management, and attendance management)
- Used Java to develop modules for Android phones, including modules like messages, media player, business modules (NFC, security protect, double screens, multimedia sharing, power saving mode)

Xiaomin Guo

Toronto, ON

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- Developed and maintained modules for mobile phones, including 3G video telephone, media player to play flow media, audio and video, management and configuration of GPRS PDP
- Gathered and analyzed business requirements for Android phones from 3GPP protocols, Google, marketing research and telecommunications services providers and national regulatory requirements
- Defined product requirements involving software, testing, certification, user interface (UI), user experience (UX); Participated in drafting and formulation of industry standards and enterprise standards
- **Technologies:** Java, IntelliJ, Spring, Android, C/C++, MS VC++, VSS, Git, JavaScript, HTML, CSS, Rational ClearCase, Rational ClearQuest, Source Insight

Software Development Engineer | [Huawei Technologies](#), Nanjing, China April 2005 - July 2006

- Developed new functions of software modules for Business Operation Support System (BOSS) for overseas telecommunications services providers
- Maintained common function modules such as privileges and system management
- **Technologies:** Java, J2EE, Struts, JSP, JavaScript, Borland JBuilderX, Eclipse, Oracle9i, BEA WebLogic 8.1, Rational ClearCase

EDUCATION

Software Engineering Technology (Fast-Track) Advanced Diploma Sept. 2024 - Present
Centennial College, Toronto, ON GPA: 4.32/4.5 (A+)

Courses:

Java Programming	Data Structures and Algorithms	Web Application Development
C# Programming	Advanced Database Concepts (SQL)	Mobile Apps Development
Software Systems Design	Testing and Quality Assurance	Linear Algebra & Statistics

Master of Science - Computer Applied Technology March 2005
Southeast University, Nanjing, China

Bachelor of Computer Science and Technology June 2002
Nanjing University of Aeronautics and Astronautics, Nanjing, China

CERTIFICATION

ISTQB® Certified Tester Foundation Level (CTFL) 4.0