Alex Guo

🎓 Bachelor of Engineering, Computer Science and Technology, Huaiyin Institute of Technology, Top 10% of Graduating Class.

🎬 Software Engineer with 14 Years of Professional Experience.

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Software Engineer | Full-Time (Feb 2025 – Present) TMed (Tranq Medical) Technology, Kelowna, BC

`Java/Spring boot/MySQL/RESTful APIs /Swagger/Junit/GitHub/Copilot/HTML/JavaScript/CSS`

- **TMedLink+** (In Progress)
  - Developed key features for TMedLink+, a mobile application that enables patients to effectively track and manage their PAP therapy treatment.
  - Designed and implemented RESTful APIs including User Profile Management API and Password Reset API using Spring Boot backend architecture with MySQL database for persistent storage, integrated with React frontend components.
  - Implemented comprehensive testing strategies including JUnit for unit testing and Swagger for API documentation and validation, ensuring thorough verification in development environments before release.
  - Utilized GitHub for task tracking and code version management throughout the development process, maintaining organized workflow and code quality.
  - Enhanced development productivity using IntelliJ IDEA with GitHub Copilot integration, leveraging AI-assisted coding to accelerate implementation and improve code quality.

- **TMedPortal** (In Progress)
  - Contributed to the enhancement of TmedPortal, a web-based platform that streamlines PAP therapy management for sleep care providers and physicians, through quality assurance and bug resolution.
  - Utilized GitHub for task tracking and version control, ensuring systematic resolution of reported bugs and feature improvements.
  - Specialized in troubleshooting and resolving various issues identified during testing within the Vue.js frontend and PHP backend environment.
  - Leveraged AI-powered development tools (GitHub Copilot and GPT-4o) to enhance productivity and accelerate issue resolution.

- **TMed Website** (Maintenance)
  - Maintained and updated the Tmed company website using HTML, CSS, and JavaScript integration.
  - Ensured timely publication of new PAP product information, company developments, and implementation progress for Tmed Link+ and TmedPortal software solutions.

Software Engineer | Full-Time (Aug 2024 – Feb 2025) Tranq Sleep Care, Kelowna, BC

`Python/Django/MySQL/Angular/TypeScript/CSS/HTML/GitHub/Copilot`

- **MySleepTutor** Revamp
  - Led the complete revamp of MySleepTutor, a behavioral modification platform that helps users eliminate sleep issues through a streamlined 5-week text and video course.
  - Architected and developed the full-stack solution using Angular with TypeScript (frontend) and Django with Python (backend) , and MySQL database for robust data storage.
  - Directed the entire project lifecycle including design, development, and testing phases while managing version control and progress tracking through GitHub.
  - Significantly enhanced development efficiency by integrating AI tools (GitHub Copilot and ChatGPT) into the workflow.
  - Successfully relaunched the platform in February 2025, receiving positive feedback from over 10 patients who reported significant improvements in their sleep patterns after completing the 5-week course curriculum.

Programming Instructor | Part-Time (Nov 2024 – Present) OCCA Childcare, Kelowna, BC

`Python/Scratch/CCC/Lego robots`

- Trained students (ages 10-12) with Python foundations for the Canadian Computing Competition (CCC) Junior division, focusing on junior algorithm and problem-solving techniques for the competition.
- Instructed children (ages 8-12) in robotics engineering and programming using Lego Spike Prime kits, teaching Scratch programming to control custom-built robots in preparation for the FIRST LEGO League Challenge.

Software Engineer (May 2023 – Jun 2024) Self-employed, Kelowna, BC

`Project Management/MuleSoft/Azure`

- Expanded project management knowledge and completed PMP certification renewal in June 2024.
- Mastered integration platform Mulesoft and cloud services, obtaining Salesforce Mulesoft Developer certification in January 2024 and Azure Cloud certification in December 2023.

Team Leader & Sr. Software Engineer | Full-Time (Oct 2017 – May 2022) NTT DATA, China

`Project Management/Java/Spring Boot/Spring/Oracle/ RESTful APIs`

- Led cross-functional engineering teams of 8 members, optimizing workflows and resource allocation, while providing technical mentorship and training that increased team productivity by 25%.
- Applied formal project management methodologies after obtaining PMP certification in June 2021, effectively managing project scope, timelines, and resources while adhering to industry best practices.
- Designed and implemented system integrations and RESTful APIs in a hybrid work environment, collaborating with business stakeholders to achieve 30% improvement in operational efficiency and enhance security protocols.

Software Designer | Full-Time (Jul 2017 – Sep 2017) NTT DATA, Tokyo Japan

`Requirements analysis/Software Design`

- Analyzed requirements and designed user interfaces to ensure excellent user experience and usability, resulting in a 20% increase in user satisfaction.
- Wrote technical and designed documentation to provide clear guidance throughout the project development, reducing development time by 15%.

Software Engineer | Full-Time (Jul 2009 – Jun 2017) NTT DATA, China

`Java/JSP/Struts/Spring/Oracle/Junit/JavaScript`

- Wrote and maintained high-quality code with an emphasis on scalability and maintainability, implementing best practices that reduced code defect rate by 20% across project deliverables.
- Implemented JUnit test frameworks and performed systematic debugging to ensure code stability and reliability, increasing test coverage to 95% while improving system reliability in production.

Volunteer Experience

- **IT Administrator** (Aug2024 – Present) OCCA, Kelowna, BC
  - Provided regular updates and maintenance for OCCA and OCCA Childcare websites, ensuring smooth website functionality and optimal user experience.
  - Managed Office 365 accounts for OCCA staff and performed routine maintenance of OCCA network servers, ensuring reliable IT infrastructure and minimal system downtime.

- **Programming Instructor** (Aug2024 – Nov2024), OCCA Childcare, Kelowna, BC
  - Taught Python basics to children (ages 10+), introducing fundamental programming concepts and problem-solving skills while creating engaging projects to build confidence in coding.
  - Designed and delivered Scratch programming curriculum for younger students (ages 8-10), fostering early interest in computational thinking through interactive, visual-based learning activities.