

KEVIN ZHANG

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EDUCATION

University of Waterloo & Wilfrid Laurier University

BCS, Bachelor of Computer Science & BBA, Bachelor of Business Administration | 2023-2028

WORK EXPERIENCE

Instructional Support Assistant | *University of Waterloo*, Jan-Apr 2025

- Streamlined workflows and reduced manual effort by **90%** through developing automated grading, emailing, and assignment management scripts using bash and Python
- Provided technical guidance to **120+** first-year students in Bash, C, and fundamental coding principles, ensuring a deep understanding of essential programming tools and best practices
- Demonstrated strong debugging skills and attention to detail by identifying and resolving issues in student code, improving learning outcomes and student grades

Technical Marketing Specialist | *WonSign Technologies*, May-Aug 2024

- Performed in-depth research and analysis of healthcare industry websites by evaluating user experience, examining content quality, and creating recommendation reports
- Successfully led the redesign of the company website by creating detailed and actionable guides in Figma for developers, and helped improve website infrastructure with Java and JavaScript frameworks.
- Collaborated with **15+** peers across multiple teams to craft concise and engaging content, ensuring the redesigned website was visually appealing and aligned with the brand message

PROJECTS

Clinic Management App | July-Aug 2025

- Developed a full-stack healthcare web application, enabling clinics to manage and contact patients efficiently.
- Implemented the backend using Spring Boot and MySQL, ensuring robust and secure data management.
- Built a responsive front end with React, Bootstrap CSS, TypeScript, and Axios for seamless API integration, enhancing user experience and patient interaction features.

C-like Language Compiler | May-July 2025

- Implemented a C-like language compiler in C++, including tokenization, semantic analysis, and code generation.
- Applied compiler design techniques such as Simplified Maximal Munch for lexical analysis and bottom-up parsing for syntax validation, demonstrating expertise in structured language processing.
- Achieved top 1% efficiency in generated machine code among peers, optimizing compiler output for performance and demonstrating strong systems-level coding skills

Travel Budgeting Android App | Sept-Nov 2024

- Collaborated in a team of 4 to create a secure full-stack app for travel expense management using Agile development, leveraging Kotlin and Jetpack Compose for an intuitive user interface
- Led data integration from external Google APIs such as Maps, Place Autocomplete, and Live Currency Conversion
- Leveraged Firebase's NoSQL architecture to build a scalable, real-time backend for efficient storage and retrieval.

Chamber Crawler 3K Game | July 2024

- Used object-oriented design principles and UML diagrams to design a console-based game in C++
- Created and executed unit tests and functional tests to ensure an optimized run time and resource usage
- Authored documentation following best practices to track progress and highlight potential next steps

SKILLS SUMMARY

Languages: C/C++, Python, Java, Bash, Kotlin, JavaScript, SQL, CSS, HTML, TypeScript, Ruby

Technologies: Linux, MySQL, Git, GitLab, React, Figma, Spring Boot, AWS Cloud Computing, Firebase, Rails

Soft Skills: Time Management, Integrity, Communication, Collaboration, Innovation, Commitment, Quick-Learning