Matthew Alain (He/Him)

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Profile Statement

Fourth year student pursuing a Bachelor of Technology in Information Technology specializing in mobile and web application development at Kwantlen Polytechnic University, with developed research and writing skills through a completed English minor. Two years of experience at Policy Reporter on the DQAT team reinforces a strong understanding of the company's initiatives and goals, as well as the basic expectations relevant to this position.

Education

Kwantlen Polytechnic University, Surrey, BC   **2017 – Present**
Bachelor of Technology in Information Technology, Minor in English
- Expected graduation in Spring 2026
- Completed equivalent requirements for diploma in Computer Information Systems
- Seventeen-time Dean's Honour Roll award recipient
- Relevant coursework to date:
  - **Software Quality Assurance:** Developed timely, cost-effective, and high-quality software products according to user requirements. Created a sample quality assurance plan addressing scope, test cases, and expected versus actual outputs for classmate's software, earning the highest-ranking presentation from fellow students. Applied concepts of verification, validation, boundary testing, and finite state machine diagrams to identify exhaustive list of possible edge cases.
  - **Principles of Program Structure and Design I and II:** Analyzed requirements and designed solutions with coding, testing, and documenting, focused on modular design and object-oriented programming in C++ and Java. Familiar with concepts of data structures, objects, object interaction, inheritance, polymorphism, interface, classes, and exception handling.
  - **Web Application Development I and II:** Learned operating principles of the World Wide Web and its relationship with the internet, as well as the client-server model, internet protocols, domain names and URLs, websites, and web hosting. Familiar with HTML, CSS, and JavaScript to program client and server-side environments while developing data-driven Web applications. Synthesized MySQL knowledge with addition of PHP to develop dynamic, secure, and commercially usable websites.
  - **Data Structure:** Studied sorting, searching, and coding data structures used in the development of optimized systems and complex algorithms. Practiced solving problems with recursion, reversing and deleting data structures, and comparing sorting algorithms based on stability, storage space, and complexity. Familiar with linked lists, stacks, queues, binary trees, graphs, and hashing.

Skills and Attributes

Technical Skills

Languages and Scripts	Operating Systems	Software and Tools
Java JUnit5	Windows	Microsoft Office
PHP MySQL	Android	Android Studio
HTML5 CSS	Linux	XAMPP
JavaScript C++		Processing 4
Python		VirtualBox

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Transferable Skills
- Self-motivated to achieve long-term goals through daily training in learning new programming languages such as Python, Go, and TypeScript
- Strong attention to detail through maintaining an online database as a personal project
- Clear communication and leadership skills through training groups and individuals
- Published in undergraduate journal, showing effective research and proofreading skills
- Positive community involvement as a volunteer judge at local martial arts tournaments

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Work Experience

Data Quality Coordinator I   **2023 – Present**
Policy Reporter, Vancouver, BC
- Researching payer websites to identify and prevent duplicate and reverted data entry from entering the database, showing high attention to detail and care for accurate work
- Recognizing process inefficiencies and taking initiative to suggest and independently implement potential solutions through Microsoft Excel formulas to benefit the entire team
- Completed co-op PMP review with a perfect rating, having all records on-target or better, and hourly data processing rates exceeding double the expected goals
- Received team member of the quarter award in the first four months of employment for optimal productivity, finesse, and research capabilities
- Offered contract position after co-op term completion before moving into permanent role on team, now serving as the primary trainer for the team's new co-op students each term

Peer Tutor   **Fall 2021 – Spring 2024**
Kwantlen Polytechnic University Learning Center, Langley, BC
- Collaborating with fellow university students to guide them to an understanding of complex topics in programming and writing courses to support their future success
- Developed skills for consistent journaling and post-session notetaking to recognize potential for incremental improvement in the tutoring process, showing a willingness to embrace and understand the agile method of process iteration
- Created, tested, and revised lesson plans for common topics of confusion among tutees to ensure progressive understanding of basic concepts prior to developing new skills
- Encouraged students to think out loud to both explain and understand their reasoning, allowing for more open communication and awareness of barriers to further success

Certified Martial Arts Instructor   **2020 – Present**
ATA Black Belt Academy and Karate for Kids, Maple Ridge, BC
- Independently developing an android mobile app to automate monthly admin tasks, following design specifications from business owner to ensure complete quality satisfaction from end user
- Leading introductory lessons for potential new students and their guardians to make personal connections with prospects and understand their unique aspirations
- Demonstrating and encouraging the use of leadership life skills inside and outside of class to fulfill customer goals of developing strong personal habits through martial arts
- Promoting admin process efficiency through reorganizing online file system beyond expected working hours using advanced Microsoft Excel spreadsheets