QUENTIN LAMBKIN, B.SC

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A Software Engineer who is meticulous in developing, testing, and debugging software programs, troubleshooting systems performance issues, and writing or generating code. Will translate technical systems specifications and collaborate with staff throughout the Software Development life cycle to meet the needs of the business to produce secure and competitive software programs.

EDUCATION

Bachelor of Computer Science   *University of Windsor, Windsor ON*   **2021**

KEY STRENGTHS

- **Software Development, Deployment & Applications**
- **Testing & Debugging**
- **Troubleshooting Performance Issues**
- **Data Structures**
- **Algorithms**
- **Programming**
- **Database Management Systems**
- **Web Information Systems**
- **Computer Architecture**
- **Digital Design**
- **Cloud-Based technology**
- **Software Security**
- **Relational & Hierarchical Databases**
- **Retrieval Packages**
- **Analytical & Negotiation Skills**
- **Internet Ready applications**
- **Rapid Application Development**

SOFTWARE LANGUAGES

- Java
- JavaScript
- jQuery
- C
- C++
- C#
- React
- Python
- Mongoose
- Mongo DB
- HTML
- Bootstrap
- Express
- Node
- Motoko
- Sass
- JSON
- CSS

SOFTWARE ENGINEERING SKILLS

- Determined operational feasibility by evaluating, analyzing, and designing system specifications by rewriting the code or creating new applications to meet users' computer needs to increase business operations or reduce manual time

- Executed troubleshooting and remediation of performance issues in web-based applications and Windows Services

SOFTWARE ENGINEERING SKILLS *Continued*

- Demonstrated strong DevOps by building and deploying infrastructure with cloud deployment technologies, test-driven development, and automated testing frameworks to contribute to reusable software components
- Analyzed system requirements to determine functional requirements for reports and other enhancements to web-based systems
- Developed applications using a relational database to store and retrieve data
- Wrote software applications for building systems and deployment of software to servers including status reports to management
- Diagnosed applications issues without access to servers

INDEPENDENT PROJECTS

- **Spotification**: developed a Spotify API that pulls user data from Spotify and displays that users public playlists and ranks their most played tracks and artists within variable time constraints by utilizing JavaScript, Sass, JSON, and Express.
- **Sorting Visualizer**: implemented the Merge Sort algorithm in a React application to provide a visual demonstration of how the sorting algorithm efficiently sorts an array of randomly assigned values by using JavaScript, Sass and Node.
- **Note Keeper**: created a dynamic note-keeping application using React hooks, JavaScript, JSON, HTML, CSS, and Bootstrap to allow users to post and delete notes displayed visually on a board
- **Python Pathfinder**: demonstrated the A* Search pathfinding algorithm designed to find the shortest path between a designated start and end point on a grid and implemented a search icon to dictate which routes to traverse through the utilization of Python and the Pygame Library.
- **Connect4 AI**: created a Python AI optimized to play a perfect game of Connect4 using the Mini-Max algorithm along with Alpha-Beta pruning to aid in informing the AI of the most effective next series of moves.

ADDITIONAL LINKS FOR PROJECTS

- https://qlambkin.github.io/
- *https://www.linkedin.com/in/quentin-lambkin/*
- https://github.com/QLambkin
- https://spotification.herokuapp.com/
- https://qlambkin.github.io/SortingVisualizer/
- https://qlambkin.github.io/KeeperApp/