Topher R.J. Shortt

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Dedicated and versatile professional with a solid foundation in government operations, seeking to transition expertise and skills into a dynamic IT role. With a proven track record in ensuring the integrity and efficiency of border security systems, I bring a unique blend of technical proficiency, strategic problem-solving, and practical application to an IT position. I am eager to contribute my newly acquired skills in network administration, cybersecurity, and system optimization to the ever-evolving tech landscape.

EDUCATION

Bachelor of Science in Computer Science   **September 2023**
Western Governors University   Salt Lake City, UT
Previous non-related Bachelors and Masters available upon request

WORK

Contract Developer   **2022 - Present**
The Lonely Dash Co.
VS Code | Python | Flask | JavaScript | HTML/CSS | IT
- Engineered full-stack web applications leveraging Flask while incorporating HTML, CSS, Python, and JavaScript.
- Produced comprehensive LeetCode tutorial video walkthroughs for the organization's YouTube channel.
- Demonstrated proficiency in JavaScript, HTML and CSS to build interactive and visually interesting games (utilizing photopea for image creation), showcasing strong front-end development skills.
- Safeguarded server integrity through vigilant monitoring of system firewalls, while consistently implementing security updates and enhancements.
- Administered a small Linux server for web hosting, cloud hosting, and media hosting.

Border Services Officer & Superintendent   **2017 - Present**
Government of Canada, Canada Border Services Agency
Leadership | Conflict Resolution | Critical Thinking | Problem-Solving | Teamwork | Decision Making
- Leveraged expertise in security to intercept illicit materials crossing international borders via various technologies, leading to multiple successful arrests and subsequent charges.
- Utilized data analytics and reporting tools to detect trends and patterns in border security, aiding in the identification of potential instances of unauthorized immigration into Canada.

RECENT SOFTWARE PROJECTS

Diabetes Prediction - Application and Machine Learning
Google Colab/Jupyter Notebook | GitHub | Python | Numpy, Pandas, Matplotlib, Seaborn | CSV Manipulation
- Developed a machine learning model to predict the likelihood of diabetes in patients, demonstrating strong programming skills and data analysis capabilities using the above noted libraries and languages.
- Conducted extensive hyperparameter tuning & cross-validation to optimize model performance. Furthermore, compared multiple models and algorithms to determine the most accurate based on numerous metrics.
- Employed data visualization techniques with matplotlib and seaborn to create informative plots, aiding in data exploration and model insights for possible stakeholders.

IMS - Application
NetBeans IntelliJ | Java | JavaFX | SQL | mySQL
- Designed and developed a robust IMS using Java, demonstrating proficiency in object-oriented programming.
- Implemented user authentication and authorization mechanisms for access control to the system.
- Utilized Intellij as IDE to write, debug, and maintain code, showcasing proficiency with industry-standard tools.
- Documented the system architecture, database schema, and user guides, displaying effective documentation and knowledge sharing skills.

CERTIFICATIONS & TECH STACK

CompTIA A+ Certification   **June 2024**
CompTIA Network+ Certification   **June 2024**
ITIL Foundation Certificate in IT Service Management Version 4   **2023**

Proficient Languages:	Python, Java, JavaScript, HTML/CSS
Competent Languages:	TypeScript, PHP, SQL, R
Frameworks:	Flask, Django
Databases:	mySQL, mariaDB
ML Libraries:	Numpy, Pandas, Matplotlib, Seaborn
Proficient Tools:	Git, GitHub, VS Code, Android Studio, IntelliJ, Eclipse, Docker