OLENA ORLOVA-KURYLOVA

Software Developer

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ABOUT ME

Highly motivated and detail-oriented fourth-year honours Computer Science student poised to graduate in spring 2024, equipped with a strong foundation in agile project management, software development expertise, and a client-centric approach. Dedicated to leveraging these skills to delight clients in the dynamic field of technology and software development.

EDUCATION

The University of Western Ontario

📅 Sept 2018 - May 2024

- Honours Specialization in Computer Science with Minor in Software Engineering (Bachelor)
- Cumulative GPA: 3.8 / 4.0

EXPERIENCE

C++ Computer Programmer Intern | IO Industries Inc.

📅 May 2022 – Aug 2023   📍 London, ON, CA

- Collaborated with stakeholders to gather requirements, define project scope, and deliver high-quality digital camera control applications using **C++** and **Qt**.
- Enhanced the performance and responsiveness of the application through the implementation of multi-threading. This improvement reduced the loading time of the recordings table and allowed users to terminate loading and exit the recordings tab.
- Effectively addressed multiple GUI issues using **Qt** to enhance clarity and user-friendliness.
- Spearheaded the research of color space transformation matrices for all company sensors with **Imatest** and **Dcraw** guaranteeing adherence to industry standards of digital content development.
- Evaluated multiple algorithms and chose the most appropriate one, designed the user interface in **Figma**, and implemented controls for real-time display color adjustments (brightness, saturation, etc.), ensuring a superior frame processing speed and application responsiveness by using **Boost**, **OpenCV** and **Intel Integrated Performance Primitives (Intel IPP)**.
- At the request of a customer, implemented a cohesive dark user interface using **Qt Stylesheets** while adhering to best practices and guidelines for dark mode design.
- Designed in **Figma** and implemented a user interface for precision color adjustment for the 8KSDI and 4KSDI cameras, enabling seamless color matching with other cameras in the same production setting using **C++** and **Qt**.
- Implemented a standalone application with **Windows API** front-end and **C++** back-end to automatically detect Volucam cameras and Rodeo recorders on the network. Additionally, integrated this application into StudioCap-VS suite **NSIS** installation script.

PROJECTS

Fish on Wheels | Object-Oriented Design and Analysis

📅 Sept 2021 – Dec 2021

- Created specialized software designed to identify the fish's location within its enclosure and convert this data into actual motion of a fish transportation system with **C++** and **Qt**.
- Collaborated within a 5-person **Agile** team to explore and master unfamiliar libraries such as **Boost**, concurrently gaining practical expertise in hardware components including Raspberry Pi, cameras, and motors.

LANGUAGES

C++   C   Python   Java

PROJECT MANAGEMENT

TortoiseSVN   Jira   Git

IMAGE PROCESSING

Qt   OpenCV   Boost   Imatest   Dcraw   Intel IPP

OTHER TOOLS

Windows API   NSIS   AWS   Wireshark   DebugView   SQLite   VueJS   Docker   MySQL   JUnit   numpy