Krystal Pothilat

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EDUCATION

University of California, Riverside   **Riverside, CA**
Bachelor of Science in Computer Science   **September 2020 - June 2024**
COURSES: Data Structures, Algorithms, Embedded Systems, Operating Systems, Artificial Intelligence, Database Systems

EXPERIENCE

General Atomics Aeronautical Systems, Inc.   **San Diego, CA**
Software Engineer Intern   **June 2023 - August 2023**

- Expanded payload configuration by an additional 20% through the implementation of 2 functioning payload features on the Portable Pre-flight and Post-flight Equipment (P3E) using C++**,** JavaScript**,** and XML
- Developed the messaging process that spans multiple embedded systems, providing functionality for 2 payload features on the P3E
- Updated the user interface of the AV Config page using JavaScript and XML to include 2 new selection options for payload configuration per the customer's needs

Software Engineer Intern   **June 2022 - August 2022**

- Enhanced the user interface of 10+ visual components on the Heads-Up Display (HUD) using JavaScript and XML for the Certified Ground Control System (CGCS) for remotely piloted aircraft
- Reinforced informational components on the Payloads Page on the P3E to allow easy ID visibility, increasing work efficiency by 2%
- Equipped Linux and C++ to test code changes, ensure proper enhancement of visuals and overall functionality

PROJECTS

Movie Bucket List
Personal Project | Link | GitHub   **June 2024 - August 2024**

- Created a dynamic movie bucket list web application displaying IMDB's Top 100 Movies
- Built RESTful APIs to facilitate seamless communication between a React.js front-end and a Node.js/Express.js back-end
- Integrated the OMDB API to fetch and display detailed movie information when adding new movies to the bucket list
- Utilized a MongoDB database, leveraging efficient data retrieval and update mechanisms, with Mongoose for data modeling

Notion Custom Bingo Widget
Personal Project | Link | GitHub   **January 2024 - Present**

- Developed an online platform with ReactJS, allowing users to create and customize Bingo card widgets that can be seamlessly deployed as an embeddable link on the platform Notion
- Designed a scalable backend infrastructure using Express.js and Node.js, ensuring efficient middleware operations
- Implemented MongoDB, a NoSQL database system, to provide secure and scalable storage for user-configured widgets
- Currently integrating Google OAuth authentication, to enhance user security and streamline the login process

SpotiMerge
University of California, Riverside   **January 2022 - March 2022**

- Developed an application that merges two playlists into a single playlist based on similar songs, using C++ and QT library
- Utilized the QT-Creator IDE to create an intuitive user interface
- Demonstrated effective collaboration by participating in Scrum meetings and using GitHub for version control

EXTRACURRICULARS

Women in Computing at UCR (WⁱⁿC)   **Riverside, CA**
President   **March 2022 - March 2023**

- Led the largest computer science student organization on campus empowering women in tech
- Achieved expansion of member turn-out at in-person events by 150% through successful marketing and community cultivation
- Increased organization funds by 50% during the 5th annual BCOE Match Challenge
- Showcased exceptional leadership by overseeing and supporting 6 officers and 10 in-person events per quarter

SKILLS

C++, XML, JavaScript, Python, Git, Github, TortoiseSVN (Subversion), DevTrack, IBM DOORS, Scrum, React.js, Express.js, Node.js, MongoDB, NoSQL, HTTP, JSON, QT, Qt Library, Qt-Creator, HTML, CSS, Fetch, API, REST, leadership, data structures, algorithm, embedded systems, database management, middleware, OWASP,