

# Krystal Pothilat

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## EDUCATION

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**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

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**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

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**Notion Custom Bingo Widget**

**Riverside, CA**

**Personal Project | [Link](#) | [GitHub](#)**

**January 2024 - Present**

- Developed an innovative online platform using ReactJS to enable users to create personalized and customizable Bingo card widgets that can be seamlessly deployed as an embeddable link on the platform Notion
- Designed a robust backend infrastructure using Express.js and Node.js for middleware
- Implemented MongoDB, a NoSQL database system, to provide secure and scalable storage for user-chosen widget configurations
- Currently adding login/Google account sign-in authentication

**Personal Website**

**Riverside, CA**

**Personal Project | [Link](#) | [GitHub](#)**

**December 2023 - January 2024**

- Deployed a responsive personal website using ReactJS to showcase industry experience, leadership history, and current technological interests via projects
- Leveraged ReactJS features to implement a modular code structure, reducing redundancy and promoting code reusability
- Ensured cross-browser compatibility and responsiveness, accommodating users on various devices and screen sizes

**SpotiMerge**

**Riverside, CA**

**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

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**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

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