

# Krystal Pothilat

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## PROFESSIONAL SUMMARY

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Highly motivated and goal-driven college graduate with a Bachelor's degree in Computer Science, experienced in backend development with C++ and JavaScript and full-stack web development using React, Node.js, Express, and MongoDB. With two Software Engineering internships at General Atomics ASI, I consistently demonstrate a can-do approach, applying problem-solving skills with keen attention to detail to consistently deliver high-quality results. I excel in fast-paced environments and quickly adapt to new technologies and challenges. My strong collaborative skills allow me to thrive in cross-functional teams through clear communication and effective teamwork.

## EDUCATION

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**University of California, Riverside**

**Bachelor of Science in Computer Science**

**September 2020 - June 2024**

**COURSES:** Data Structures, Algorithms, Embedded Systems, Artificial Intelligence, Database Management Systems(relational databases), Fullstack Web Development

## EXPERIENCE

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**General Atomics Aeronautical Systems**

**San Diego, CA**

**Software Engineer Intern**

**June 2023 - August 2023**

- Increased payload configuration by 20% by implementing 2 payload features on the P3E using C++, JavaScript, and XML
- Expanded the messaging process that spans multiple embedded systems, introducing new functionalities for two payload features
- Updated the AV Config page user interface with JavaScript and XML, integrating the two new payload options
- Utilized IBM DOORS for requirements management, tracking and ensuring adherence to system specifications

**General Atomics Aeronautical Systems**

**San Diego, CA**

**Software Engineer Intern**

**June 2022 - August 2022**

- Integrated and optimized the Heading Hold feature on the HUD by managing codebase complexities, messaging and signaling
- Enhanced 10+ visual components on the Heads-Up Display (HUD) using JavaScript and XML, providing a more refined UI
- Utilized Linux operating system software to manage and work with virtual machines, ensuring a seamless testing environment
- Employed C++ to test and verify code changes, ensuring system functionality meets required standards and performs reliably

## PROJECTS

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**Movie Bucket List**

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

**June 2024 - August 2024**

- Built REST 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 MongoDB and Mongoose for efficient CRUD operations, data modeling, and schema validation

**Bingo Widget Creator**

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

**January 2024 - September 2024**

- Developed a ReactJS web application for creating and customizing Bingo card widgets, deployable as embeddable links on Notion
- Designed a scalable backend infrastructure using Express.js, Node.js, and MongoDB for secure and efficient widget data storage
- Implemented Google OAuth authentication through GoogleCloud, to enhance user security and streamline the login process

**SpotiMerge**

**University of California, Riverside**

**January 2022 - March 2022**

- Built a C++ application using Qt to merge playlists by identifying and exporting similar songs with a user-friendly interface
- Applied object oriented programming (OOP) principles and the Composite design pattern
- Followed Agile methodologies in a Scrum development environment with version control managed through Git
- Conducted user interaction tests for UI functionality and unit testing with Google Test to ensure code quality and reliability

## EXTRACURRICULARS

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**Women in Computing at UCR (WiNC)**

**Riverside, CA**

**President**

**March 2022 - March 2023**

- Achieved a 150% increase in member turn-out at in-person events through successful marketing and community cultivation
- Increased organization funds by 50% during the 5th annual BCOE Match Challenge through collaborative fundraising efforts
- Showcased exceptional leadership by overseeing and supporting 6 officers and coordinating 10 in-person events per quarter

## TECHNICAL SKILLS

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**Languages**

C++, Javascript, HTML, CSS, SQL, XML, Python

**Frameworks**

React, Node.js, Express

**Tools**

MongoDB (noSQL), Linux, Qt, Qt-Creator, Git, TortoiseSVN, Vercel, IBM DOORS, DevTrack