Ryan Ilano

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PROFESSIONAL SUMMARY

Innovative Software Engineer with a strong background in both embedded systems and full-stack development. Drawing on extensive project experience, I design scalable, user-focused applications that seamlessly integrate front-end and back-end technologies. Driven by a passion for continuous improvement and an unwavering commitment to problem-solving, I dedicate time every day to learning new skills beyond my regular work. I am actively transitioning into a full-stack role through persistent self-education and innovative side projects.

RELEVANT EXPERIENCE

Associate Software Engineer, Northrop Grumman   **JAN 2023 – PRESENT**
- Implemented software changes to UH-60V Black Hawk cockpit applications, including the CDU (Control Display Unit) and FMS (Flight Management System) with a focus on robustness and efficiency.
- Created and maintained Python test scripts to automate testing of code and ensure full code coverage of requirements.
- Developed requirement-tracing automation tools to increase team productivity and streamline tedious processes, improving ease of use and efficiency by 20%.
- Contributed to Independent Research & Development (IRAD) program to adapt various legacy C/C++ library applications to updated platforms.
- Support Artificial Intelligence & Analytics program by migrating Blue WASP codebase to pre-hardened Docker containers with updated dependencies

QA Contract Engineer, Gamestar+   **DEC 2021 – MAY 2022**
- Conducted black box testing on alpha builds to ensure product continuity.
- Documented blocker bugs and escalated priority for fixes to developers via JIRA.
- Collaborated with cross-functional teams to maintain continuous workflow and quality assurance.

FREELANCE/PROJECTS

Coboards   **MAR 2025**
- Developed an interactive platform that allows users to collaborate on digital whiteboards in real time, enabling seamless idea sharing and visual brainstorming.
- Technologies used: Next.js, TypeScript, PostgreSQL, Tailwind CSS, Express.js

Captain Chatters   **MAR 2025**
- Created a dynamic real-time chat application designed to facilitate instant communication among users.
- Utilized websockets via Socket.io to enable full-duplex interaction between clients and server.
- Technologies used: Next.js, TypeScript, PostgreSQL, Tailwind CSS, Socket.io

Taenia Designs Art Portfolio (Freelance Project)   **JAN 2025**
- Developed a responsive, visually appealing website for Taenia Designs, allowing the client to effectively showcase their artwork.
- Optimized deployment on Vercel, ensuring high performance and reliability for an excellent user experience.
- Technologies used: HTML, CSS, JavaScript

EDUCATION

B.S. Computer Science, California State University – Northridge   **MAY 2022**

SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Python, C++, C, Go, Java, SQL, GraphQL

Technologies: Next.js, React, React Native, Docker, AWS, Google Cloud Platform, MongoDB, Linux, Git, Redis, Jenkins