

Quinton Bock

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EDUCATION

Purdue University Northwest, Hammond, IN

Bachelor of Science in Computer Science

GPA: 3.67/4.0

December 2024

SKILLS

C, C++, Java, Python, JavaScript, Oracle SQL, HTML, CSS, HMI, SCADA, Ignition, Windows, Microsoft Office

PROJECTS/COURSEWORK

Algorithm Visualizer

January 2025 - Present

- Developed a Java-based visualizer for insertion sort, improving algorithmic understanding and visualization skills.
- Implemented adjustable speed controls and color-coded key values, enhancing UI design experience.
- Optimized step-by-step visualization with sleep functions, refining event-driven programming skills.
- Expanding functionality with additional sorting algorithms, strengthening modular code design.

Ingredient Tracker

February 2025 - Present

- Built a Java-based recipe-ingredient database to track inventory, improving SQL and data management skills.
- Designed a relational database schema for ingredient storage, reinforcing database structuring.
- Laying groundwork for expiration tracking, unit conversions, and shopping recommendations, gaining experience in database-driven applications.

WORK EXPERIENCE

Process Controls Intern

May 2024 - August 2024

United States Gypsum - Chicago, IL

- Transitioned an HMI system from Wonderware to Ignition Vision, improving efficiency and user interaction, resulting in a smoother operational workflow.
- Designed over 10 reusable equipment templates, ensuring universal application across multiple plants, which improved efficiency for future system adaptations.
- Integrated real-time OPC data monitoring, enhancing operational visibility and reducing alarm response time.

Process Controls Intern

May 2023 - August 2023

United States Gypsum - Chicago, IL

- Transitioned an existing controls system from Ignition Vision (Java-based) to Perspective (HTML5-based), improving user accessibility and system performance.
- Utilized scripts, queries, tags, bindings, components, and other tools within Ignition to develop a dynamic HMI/SCADA system, optimizing system functionality for end users.
- Delivered a comprehensive presentation to an audience of over 30 people, including senior executives, at the corporate office, highlighting a successful migration process and its potential scalability.

ACTIVITIES/HONORS

Captain - Purdue Northwest Track and Field

Spring 2022 - Spring 2024

Captain - Purdue Northwest Cross Country

Fall 2021 - Fall 2024

Student Athlete Advisory Committee

Fall 2021 - Spring 2022

Dean's List

Fall 2021 - Fall 2024