# HEINRICH C. SANDRINO

JUNIOR QUALITY ASSURANCE TESTER

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Portfolio: https://heinrichsandrino.github.io/Sandrino_Portfolio/

## PROFESSIONAL SUMMARY

Junior Quality Assurance Tester with a strong foundation in software development and Agile practices. Hands-on experience in manual testing, functional validation, test scenario design, regression checks, and identifying/reporting defects through academic projects and internship with additional background in back-end development and system integration. Served as Scrum Master during an internship, managing repositories, refining business requirements into user stories, and guiding development sprints. Skilled in collaborating across teams, validating system reliability, and ensuring smooth product delivery. Recognized for adaptability, problem-solving, and bringing both a tester's eye for detail and a developer's understanding of code quality.

## KEY SKILLS

- ✓ C
- ✓ C++
- ✓ Python
- ✓ Java
- ✓ JavaScript
- ✓ TypeScript
- ✓ Dart

- ✓ HTML
- ✓ R
- ✓ Spring Boot
- ✓ Spring Framework
- ✓ Angular
- ✓ React
- ✓ Three.js

- ✓ Microsoft Office
- ✓ REST API
- ✓ Supabase
- ✓ Firebase
- ✓ MySQL
- ✓ PostgreSQL
- ✓ Mapbox API

- ✓ Google API
- ✓ Git/GitHub
- ✓ Agile (Scrum)
- ✓ Manual Testing
- ✓ Postman
- ✓ SDLC

## WORK EXPERIENCE

**DESO Technical Support Staff | Commission on Elections (COMELEC)**                    May 2025
- Deployed, configured, and tested 4 Automated Counting Machines (ACMs), each assigned to over 800 registered voters during the 2025 national and local elections.
- Diagnosed and resolved live malfunctions under pressure, ensuring accuracy and uninterrupted operation.
- Coordinated with electoral board officials to maintain protocol compliance and secure data transmission of election results.

**Back-End Developer Intern | Quanby Solutions Inc.**                    Jun 2024 – Jul 2024
- Served as Scrum Master, translating business requirements into actionable testable user stories.
- Developed back-end features including authentication, data handling, and business logic using Supabase and TypeScript.
- Ensured code quality and version control by managing the team's GitHub repository by handling merges across 11 developers.
- Worked closely with cross-functional teams to validate deliverables against requirements.

**IT Support Intern (DOLE-GIP Program) | DOLE**                    Apr 2024 – Jul 2024
- Digitized and organized barangay records into a structured digital filing system to enhance data accessibility
- Diagnosed and maintained office hardware including printers and workstations, contributing to stable daily operations
- Reformatted official documents and reports, improving visual presentation and document processing workflows

**Back-End Support Staff | Fornix Corporation**                    Jan 2024 – Jul 2024
- Implemented internal product codes supporting the migration of over 1,000 inventory entries into the Odoo ERP system
- Identified and corrected discrepancies, ensuring clean and accurate integration.
- Organized and validated complex data sheets to ensure clean, accurate data transfer during system updates

# PROJECTS

**Spring Boot Employee Management System**                                                      Jul 2025
- Built a complete CRUD web application using Java, Spring Boot, MySQL, and REST APIs to manage employee data.
- Designed a clean, modern HTML/CSS/JavaScript frontend integrated with backend services via API calls.

**LAKAW: Smart Travel Planner with Route Optimization and Itinerary Generation**                May 2025
- Created a mobile tourism application for Albay using Flutter with algorithmic logic implemented in Dart
- Integrated Floyd–Warshall, A*, and Genetic Algorithms for intelligent route computation and itinerary planning
- Connected frontend to Supabase and Mapbox API for real-time data handling and geolocation-based recommendations

**Climate Vulnerability Index using K-Means Clustering**                                        May 2024
- Developed a data clustering model using R to categorize global regions based on climate vulnerability
- Applied K-Means Clustering to analyze weather datasets and visualized high-risk geographic clusters for planning use

**aiBites: Bicol Dessert Recipe Recommendation App using Image Processing**                     May 2024
- Built a mobile application using Java and Android Studio to identify dessert ingredients via image input
- Integrated image processing and Optical Character Recognition (OCR) to suggest relevant recipes based on detected components

# LEADERSHIP & VOLUNTEERISM

**Vice President for Communications | DEVCON Philippines – Legazpi Chapter**          Sept 2024 - Apr 2025

Led the drafting of official proposals, coordinated event communications, and ensured consistent digital messaging across platforms. Contributed to the planning and execution of chapter activities while facilitating speaker engagement and community outreach initiatives.

**Chapter Lead & Climate Campaigner | Angat GenC – Albay Chapter**                    Nov 2022 - Jul 2025

Managed the coordination of climate awareness campaigns, proposal writing, and training programs. Collaborated with fellow campaigners to execute educational activities, mobilize youth volunteers, and establish partnerships with local stakeholders to amplify advocacy impact.

**Deputy Director for Technical and Productions | Bicol University UNESCO Club**       Aug 2022 - May 2023

Oversaw technical logistics for university events, including equipment setup, sound system management, and program flow monitoring. Ensured smooth execution of presentations and implemented quick resolutions to technical issues during live activities.

# SEMINARS & CONFERENCES ATTENDED

- **Philippine Online Freelancing Conference 2024** *– The Oriental Hotel, Sep 2024*
- **DEVCON Legazpi: Game Development Industry Roadshow** *– Legazpi Convention Center, Apr 2024*
- **Bicol Blockchain Conference 2023** *– Bicol University, Nov 2023*
- **Campus DEVCON Legazpi: A Student Tech Symposium** *– Bicol University, Oct 2023*
- **Get Your Git Together: Learning Git and GitHub** *– Bicol University, May 2023*
- **Learning the Fundamentals: Key to Effective Project Management** *– Bicol University, May 2023*

# EDUCATION & CERTIFICATIONS

BACHELOR'S DEGREE | BS in Computer Science | Bicol University | DOST Scholar | Cum Laude                2021 – 2025
SECONDARY EDUCATION | STEM Academic Track | Bicol Regional Science High School | With High Honors      2015 – 2021
CERTIFICATION | Civil Service Professional Eligibility | Issued by Civil Service Commission | Passed: August 2023      2023