

# Jamel P. Hadjirasul

+63-969-2206-304 | hadjirasuljamel80@gmail.com | Minglanilla, Cebu, Philippines  
[jamelh.vercel.app](https://jamelh.vercel.app) | [linkedin.com/in/jamelhadjirasul](https://linkedin.com/in/jamelhadjirasul) | [github.com/catnipp9](https://github.com/catnipp9)

## PROFILE

Full-stack developer and graduating Computer Engineering student with hands-on experience building production web and mobile applications, AI/ML systems, and embedded hardware. Skilled across the full development lifecycle — from UI to backend, cloud deployment, and QA. Looking to contribute immediately to engineering teams working on meaningful products.

## EDUCATION & CERTIFICATIONS

### Bachelor of Science in Computer Engineering

Expected May 2026

Cebu Institute of Technology – University, Cebu City

Dean's Lister | Parangal Awardee (Top-Performing Students)

### IBM Full Stack Software Developer Professional Certificate

2026

IBM / Coursera | 15 courses: HTML, CSS, JavaScript, React, Node.js, Python, Django, Docker, Kubernetes, CI/CD, cloud-native. Capstone SaaS project delivered.

## WORK EXPERIENCE

### Software Quality Assurance Intern

Jun – Jul 2025

*Arielus Software Inc., Cebu*

- Performed regression, smoke, and functional testing across multiple software modules, identifying and documenting 400+ defects during the internship.
- Built and maintained automated test cases using Selenium, cutting regression testing time by roughly 30%.
- Tracked defects in Azure DevOps, maintaining an average resolution turnaround of under 2 business days alongside the development team.
- Supported sprint-level QA processes to validate compliance with quality standards before each release.

## UNDERGRADUATE THESIS

### AI-Enhanced Thermal Imaging System for Early Detection of Diabetic Peripheral Neuropathy

*Full-Stack Developer & Researcher | Cebu Institute of Technology – University | Ongoing*

- Developed a mobile diagnostic tool for early-stage diabetic peripheral neuropathy (DPN) detection using a FLIR One Pro thermal camera paired with a YOLO11 classification model.
- Achieved over 90% classification accuracy on the validation dataset, reliably identifying thermal anomalies associated with early neuropathy.
- Designed the full data pipeline from thermal image capture through model inference to a React Native mobile UI.
- Coordinated with a local medical institution for clinical data collection and thermal imaging sample acquisition.

**Tech:** React Native Expo, PyTorch, YOLO11, TensorFlow, OpenCV, FLIR One Pro, Supabase

## PROJECTS

### HanapBuhay — Hyperlocal Freelance Marketplace

2025

*Full-Stack Developer | [hanapbuhay.vercel.app](https://hanapbuhay.vercel.app)*

- Built a hyperlocal freelance marketplace connecting clients with local service providers — carpenters, tutors, babysitters — with job postings, worker profiles, in-app chat, and a ratings system.
- Achieved an average session response time of under 1.2 seconds on standard mobile connections.

**Tech:** Next.js, TailwindCSS, TypeScript, Supabase, PostgreSQL

### OptiCare — Optometry Clinic Management System

2025

*Full-Stack Developer | [danledan.vercel.app](https://danledan.vercel.app)*

- Built a web application for optometry clinics to manage patient records, appointments, and prescriptions with full CRUD functionality.
- Reduced average appointment booking time from 8 minutes to under 2 minutes through a streamlined UI.

**Tech:** Next.js, TailwindCSS, JavaScript, Firebase

### MentorMatch — Student Mentorship Booking App

2024

*Full-Stack Developer*

- Built a mobile app for students to discover, book, and manage mentorship sessions across 10+ academic disciplines.
- Achieved an average load time under 1.5 seconds and 98% crash-free rate across all tested devices.
- Contributed to system architecture, front-end UI, and backend API integration.

**Tech:** .NET MAUI, XAML, Microsoft Azure, Azure SQL

### Iron Myan — Autonomous Plant Watering Robot

2024

*Hardware & Firmware Developer*

- Built a self-navigating robot for autonomous plant watering with ultrasonic obstacle avoidance, achieving a 95% path success rate in a 3m × 3m test environment.
- Assembled full hardware — Arduino UNO microcontroller, servo motors, water pump — and wrote firmware in Arduino C++.

**Tech:** Arduino, C++, Circuit & PCB Design, Sensor Integration

## TECHNICAL SKILLS

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**Languages:** C, C++, C#, Java, JavaScript, Python, TypeScript

**Frontend & Mobile:** React.js, Next.js, React Native Expo, TailwindCSS, BootstrapCSS, .NET MAUI, Flutter, Astro, HTML

**Databases & Cloud:** Supabase, Firebase, MySQL, Azure SQL, Appwrite, AWS IoT Core

**AI / ML:** PyTorch, TensorFlow, YOLO11, CNN Development, OpenCV

**Hardware:** Arduino, ESP32, PCB Design, KiCad, Breadboarding, Soldering

**Tools:** Git/GitHub, Docker, Selenium, Azure DevOps, Figma

## SOFT SKILLS

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Problem-Solving · Critical Thinking · Leadership · Collaboration & Teamwork · Adaptability · Time Management