

# Rohan Bangaoil Solas

BS Computer Science, University of the Philippines Diliman

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## SUMMARY

A creative and detail-oriented Computer Science graduate with experience in full-stack development, AI, and data science. Adept at working independently or in teams, with projects spanning cloud technologies, IoT, and computer vision. Passionate about computer systems, music theory, and the Japanese language.

## EDUCATION

### University of the Philippines Diliman

BS Computer Science, Magna Cum Laude

Quezon City, Philippines

2021 - 2025

### Laguna BelAir Science School

STEM Track, Class Valedictorian

Sta. Rosa City, Philippines

2019 - 2021

## TECHNICAL SKILLS

**Software Engineering:** HTML5, CSS, JavaScript, TypeScript, Java, Spring Boot, PHP, SQL, Bootstrap, jQuery

**Machine Learning & Artificial Intelligence:** Python, TensorFlow, PyTorch, scikit-learn

**Cloud Computing Technologies:** AWS EC2, Google Cloud Platform, Cloudflare, GitHub

**Data Science & Scientific Computing:** Python, NumPy, SciPy, Pandas, Matplotlib, Plotly

**Low-level & Embedded Systems Programming:** C, MIPS Assembly, Arduino

## PROJECTS

### YOLOv11 with SAHI for Small Fish Segmentation | Python, PyTorch, TensorFlow Oct 2024 - Jun 2025

- Trained YOLOv11 segmentation models and applied an enhancing framework to improve modern aquaculture monitoring applications as part of a thesis.

### TV Watch | Angular, SQL, Laravel, Google Cloud Platform, AWS EC2, Cloudflare Feb 2025 - May 2025

- Worked on authentication and deployment of a content tracking platform prototype using GCP and AWS EC2.

### ResQHub | Next.js, Vercel, Firebase, Framer Sep 2024 - Nov 2024

- Created a UI prototype of an evacuation tracking system for the Quezon City local government unit.
- Implemented a log visualization feature for tracking evacuees in the system prototype.

### PillHealth | Arduino, C++ Apr 2024 - Jun 2024

- Built a prototype for a smart medicine box as part of a capstone project in a major course.
- Won first place at the corresponding culminating event held at the University of the Philippines Diliman.

### UPD ICT Inventory System | PHP, HTML, CSS, SQL, JavaScript, jQuery, Bootstrap Sept 2023 – Jun 2024

- Developed a full-stack web application for the UP Computer Center.

## EXPERIENCE

### Software Engineer

Pointwest

Jul 2024 - Aug 2024

Quezon City, Philippines

- Managed a database system, created backend APIs, and implemented a reports generation feature for a skills inventory application prototype. Worked with Angular, SQL, Java, Spring Boot, and OpenPDF.

## ACTIVITIES

### Philippine Computing Science Congress 2025

Presenter

2025 May 9

University of the Cordilleras

### HagKan: Handog Kaalaman 2024

Documenter, Student Handler

2024 Dec 14

UP Diliman

### IoT Cup 2024: Finding Innovations in Smart Home Technologies

Team Participant, Champion

2024 Jun 1

UP Diliman

### Watch the Facts! A Mini-Conference on Data Science and Disinformation in the Philippines

Presenter

2023 Jun 24

UP Diliman