

# 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 AI, data science, and full-stack development. Adept at working independently or in teams, with projects spanning computer vision, cloud technologies, and IoT. 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

**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

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

**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.

### 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.

### Sympflix | Python, Numpy, Pandas, Matplotlib, scikit-learn

May 2024 - Jun 2024

- Created a machine learning model that clusters similar movies using Linear Discriminant Analysis (LDA).

### Bass Stem Separator and Filter | Python, TensorFlow, Keras, NumPy, Librosa

Jan 2024 – May 2024

- Developed a program that extracts the bass track from songs using the U-Net architecture.

### Using Time Series Analysis on Scrapped Tweets | Python, Pandas, SciPy, Plotly

Feb 2023 – Jun 2023

- Used time series analysis, linear regression, and statistical testing on data from scraped tweets to perform correlational analysis.

## 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

2025 May 9

Presenter

University of the Cordilleras

### HagKan: Handog Kaalaman 2024

2024 Dec 14

Documenter, Student Handler

UP Diliman

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

2024 Jun 1

Team Participant, Champion

UP Diliman

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

2023 Jun 24

Presenter

UP Diliman