

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.

Syppflix | 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 Scraped 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

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