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Carl Kho (He/Him)

Projects

Padayon Ko - Scholarships for Filipinos | Winner Google AI for Impact Hackathon by Google Cloud Platform

Aug 2024 - Present

Video Pitch: <https://www.youtube.com/watch?v=cA6Wm2oLUdi>

Won against 22,000 Participants AlforImpact APAC Hackathon

I've seen firsthand how financially burdened Filipino students continue to generate immense social good. Imagine the impact if we could support more local and international Filipino scholars through a better education system.

That's why I developed Padayon Ko, a streamlined scholarship platform that helps students from start to finish. This platform uses Google's Gemini API for personalized and automated assistance, inspired by its namesake competition.

Key Features:

- Multilingual Onboarding: Students can onboard in English, Tagalog, or Cebuano, ensuring accessibility for all.
- Profile Analysis & Scholarship Matching: Gemini's embedding model analyzes student profiles and matches them with scholarships that align with their achievements and goals.
- Automated Facebook Updates: Scholarship information is automatically posted to Facebook, keeping students informed where they are most active.
- Achievement Tracker: Students can input their accomplishments, which are then transformed into scholarship-ready descriptions through AI-driven prompts and pipelines.
- Foundational Essays: Students are guided through writing responses to 10 common scholarship application questions, with the Gemini API ensuring their unique voice is preserved.
- Super Essays: With just a pasted essay question, the platform generates a tailored essay by combining the student's foundational essays and achievements.
- Voice-Only Debate & Communication Practice: This feature provides TOEFL/IELTS prep and general communication skills training through voice interactions powered by Google's Chirp and Gemini.

During the development, the Mayor of Lapu-Lapu City in Cebu, Philippines, personally live-tested the platform, where we successfully turned spoken Cebuano Visayan into polished English achievements, ideal for college scholarship applications and even resumes.



Hack2skill-Certificate.png



Padayon Ko - Scholarships for Filipinos

Contributed to OpenAI's Repo | Bringing ChatGPT's In-App Whisper Functionality to the Web

Jul 2024 - Present

This project, built entirely in Python, replicates a key functionality of the ChatGPT app that was previously unavailable on the web. It received positive feedback from the OpenAI team, including a merge approval from Ian Bigio, Applied AI Scientist at OpenAI.

It now serves as a practical resource for developers interested in integrating the Whisper API into their own web projects in the Open AI Cookbook.

The notebook allows users to:

- Record audio directly within their web browser.
- Transcribe English audio or translate other languages to English in real-time.
- Instantly copy the transcribed/translated text via clipboard integration.

During my sophomore year, I developed a Jupyter Notebook application that brings ChatGPT's real-time audio transcription feature, powered by the Whisper API, to web browsers.



new-contrib: Audio Whisper API with Local Device Microphones by CarlKho-Minerva - Pull Request #1271 - openai/openai-cookbook

Mathy Co - Tailored-to-Passion Math Problems

Apr 2024 - Apr 2024

Concept, Design & Front-End Dev. <https://hachiko-4d1f55.webflow.io/>

One-day hackathon at Mannheim Business University for Q-Hacks '24.

Learned about quick component+props creation via Webflow's DevLink + React.

3-Min Concept Explainer: <https://www.loom.com/share/d941589093fa4feb91d0b919907e258c>

<https://github.com/georgeishaq/Q-Hack>

Other contributors



5K Running Dashboard

Feb 2024 - Feb 2024

Worked with Python, Streamlit, and GitHub Codebase.

In collaboration with Prof Aboozard Hadavand of Minerva University for the global 5K Running Challenge.

[Link Redacted]

GenZed - Zambia's Biggest Hackathon

Jan 2024 - Feb 2024

In collaboration with Jonathan Shamwana of GenZed Media and the Zambian Government

Hackathon Website: <https://genzed-930fa4.webflow.io/>

Plurality Seoul - Event Website

Nov 2023 - Dec 2023

<https://plurality-seoul-2023.webflow.io/>

Is Math even useful IRL? | Hackathon Winner - AI in Education Innovation Award (Judges)

Sep 2023 - Oct 2023

Hosted by AI Consensus.

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Transform traditional math problems into real-world scenarios tailored to students' future career aspirations using Wolfram & ChatGPT4. Motivate and deepen understanding by contextualizing learning.

<https://devpost.com/software/is-math-even-useful-irl-problem-recontextualization-solving>

Peer Play

Jun 2023 - Aug 2023

Sugar Slay

Jul 2023 - Aug 2023

Other contributors



Study Kit

May 2023 - Jun 2023

Airport Wayfinding Guide (Design Concept)

Sep 2022 - Apr 2023

I worked with a team of 5 students and Gensler, a global architecture company, to develop a webapp concept to minimize airport passenger stress. The concept was similar to indoor Google Maps.

Note: This project was part of an academic program at Minerva University in partnership with Gensler and was a proposal only, not an implementation. Though it was conducted within Gensler's facilities, it did not involve San Francisco Airport.

Other contributors



The Gray Area - The Bias Mitigating Newsletter

Feb 2023 - Apr 2023

Show project

As a full-time product designer for two years, I have the valuable experience leading, building, and designing enterprise-level client projects and internal products. This experience uniquely qualified me to step into the role of the hands-on Product Manager for our team in the development of The Gray Area. My comprehensive understanding of both the technical and business sides of product development enables me to make informed decisions that move the team forward.

One of the philosophies that has significantly influenced my decision-making process for The Gray Area is centered around identifying and solving a problem that I personally encounter. This approach has allowed me to create a solution that truly addresses a specific need and provides a more impactful solution.

As the founder of the newsletter idea, I took it upon myself to develop its core features and overall concept. I recognized a need in society that could be addressed through the use of Sustainable Development Goals (SDGs). By utilizing this framework, I was able to highlight how my newsletter could not only address a specific issue but also provide solutions to other pressing global problems.

Through my thorough analysis and research, I was able to present evidence to support my arguments, demonstrating the potential impact that this newsletter could have on the world. In this project, I played a crucial role in developing the newsletter by crafting the layout and designing the tech and business architecture. I worked closely with the developers to ensure that their outputs were aligned with our expectations.

As part of my responsibilities, I overcame the unique challenge of using <tables> in the newsletter layout and developed an email layout that was visually appealing and user-friendly as I designed it using Figma. I also recorded and edited a video to include in the newsletter, designed the pitch deck, and wrote the video script to effectively communicate our message.

Other contributors



Segue MediRecords

Oct 2021 - Mar 2022

Show project

3rd runner up for Codeathon X 2021

Segue MediRecords simplifies and (de)centralizes electronic medical records (EMRs) with Notion to help small-scale physicians with patient care. The product is a live, cloud-based dashboard housing all the patients a single physician is currently handling. Inside individual patient cards are forms and information "blocks". Physicians validated and described the said forms to be similar—some even better—than the paper forms currently being used in their clinics. All these are shareable by the doctor with a link and a single tap of a button.

Segue also includes additional resources for doctors to use. These include:

- Health Info - Release Authorization Form
- Patient-Assisted Virtual Physical Examination Guide
- COVID-19 Self Monitoring Form with an E-Mail Alert
- Custom Fields (for specialists)
- To-do List with an E-Mail Reminder

The advent of COVID-19 made me wonder: how are doctors doing today? With that, I conducted a survey with the help of my mother, a medical representative. The results emphasized the need for a better electronic medical records system—especially for the doctor who uses Facebook Messenger as his medical record, scrolling up when he needs specific information. Apart from doctors backing away because of the complexity, doctors usually have to shoulder the pricey cost of the system their hospitals are using.

Other contributors



Dump.Waste

Mar 2021 - Nov 2021

Show project

Finalist for the following competitions:

- Singapore International Foundation x CodeforAsia's Climate Hack 2021
- Galileo (GNSS) Hackathons 2021

Teenagers from the Philippines go against SEA giants in Singapore's Climate Hack 2021

WHAT: An ASEAN-wide hackathon open to working professionals, entrepreneurs, and students aiming to avert the crisis of Climate Change with technology

WHO: Leading the only team to represent the PHI in the top 9 finalists (out of 500 initial entries) is Carl Kho, a 17-year-old grade 11 student with the app concept of his team called "Dump.Waste (dump that waste): a trash mapping solution (think weather forecast but for trash) to mark and act on illegal dumps around your area."

WHEN: Event proper was on 05/08/21. Results came out today (5/10)


HOW: A final pitch to determine the champions was made (recording attached below). Although they did not get into the top 3 (presumably because Singapore is already clean, and they did not see the need for the app)

The PH team nearly won the People's choice award with only 200 votes behind.

WHY FEATURE: I think this can start a ripple of positive influence to other youth of the Philippines to represent and bring glory to our country, to show the world we're technologically competent. Also, the innovator hopes that by bringing this up, the government can tackle our trash dilemma seriously and people from the DENR and DOST can work together with Carl Kho to bring Carl's solution to reality.

The Cell World

Jun 2021 - Jul 2021

Show project 

Topping off Grade 11 with our special project for Biology: **The Cell World**.

An offline mobile app where learners can freely explore and zoom in on the parts of a 3D (360° view) cell.

Specifically, learners can inspect:

- An Animal Cell
- A Plant Cell
- The process of mitosis

Congrats to us—Daryl, Shaysn for tirelessly working on this jud hahaha!

Link to download (Android, no internet needed)


<https://rebrand.ly/TheCellWorld-DPCVKSA>

Link to the website version (Accessible in both PC and Phone - requires internet)

<https://thecellworld.netlify.app/>

The Butterfly Effect - Lite

Nov 2020 - Jun 2021

Show project 

- The chat bot version of this is currently in use at Symph.co's Discord

- Used as an entry to Kabataang Usapang Isipan: Mental Health Research Competition

A health reminder on every new tab. Reduce brain fogs and develop a healthy habit of drinking water and more!

//The Butterfly Effect - A Health Reminder to prevent Brain Fogs and Psychosomatic Disorders from Extensive Gadget Use

In the new normal, sedentary lifestyles are common, we are glued down to the chair of our computers, tending to endless errands while forgetting to look after our own body. I want to help people get back to the act of moving. Get them up to drink a glass of water, stretch their body, or prompt them to go outside for a breath of fresh air. All that while being as non-intrusive as possible as to help them keep their momentum while boosting productivity.

Whether you are doom-scrolling on Facebook, or furiously looking for related articles to support your thesis statement, your body will eventually (and subtly) remind you to drink water & get *m o i s t*. We want to help you with that.

Project RISE - Cebu's Two-Way Vaccination Platform

Jan 2021 - Apr 2021

Show project 


RISE helped LGHAs adopt a structured vaccine distribution strategy. It offers a two-way online platform that caters to both the public and local government health agencies (LGHAs) to maximize communication. A three-way vaccine application system: Website, Messenger, and SMS services (WMS), is built primarily for the masses. The system enables the public to register with the internet and without the internet — increasing availability, convenience, optimization, and scope.

Other contributors



Drive: Drive Safely | A Mobile App


Sep 2019

Show project 

A mobile app made with Android Studio that disables the usage of smartphones once its accelerometers detect speed that goes beyond the set threshold.

Dirt-E Battery


Nov 2018 - May 2019

Show project 

Producing electricity now involves patches of sifted soil lined in an egg-tray like container, with a series of Galvanized Bolts and nuts carrying a solid copper wire going through the patches of dirt. Like our body, dirt has ions and minerals in it, electrolytes to be specific. Which is capable of conducting and producing a little electricity. It is then watered to make it flowing, but not too much. Creating Dirt-E energy. With each patch being capable of producing as much as 1.2 volts.

SunFlow3r (Formerly Smart Solar Tracker)

Oct 2017 - Nov 2017

Show project 

Name of Category: Everyday Solutions

Title of the Model: Sunflow3r

Team Name: LeaZy


Contestant: KHO, Carl Vincent

Harnessing the sun's energy to use it in our daily lives is one of the best discoveries made. For solar energy is an amazing, renewable and clean source of our energy. Most of all, it's free! So why not invest in it? People are dreaming of taking part in what they call the "Solar Revolution", where people are living off using purely solar energy as their source.

With the researcher willing to take a step forward for the good of the environment and paving a way to drastically reduce electricity bills. He went ahead and developed an idea that will give us a leap towards it and built a prototype of a device that follows the sun, which will follow the sun in its path throughout the day, gathering more energy to be used immediately or stored for future use.

So, here's how it works, for now he chose to use the Lego EV3 kit instead of the Arduino due to lack of knowledge and experience. So he uses 4 LDRs or light-dependent resistors attached to the corners of the solar panel, in this case he used Lego's color sensor since it has the ability to detect light ambienly and once light intensity isn't equal it automatically repositions itself to make sure all of the solar panel gets struck. Garnering more energy. Once a cloud blocks it, it temporarily changes its position, making sure it still is collecting energy, after that it continues with searching for the area with higher intensity to continue its job. At the end of the day, it temporarily disables itself to prevent energy from wasting. He also suggests to add an acrylic dome or something similar to protect it from rain and other projectiles. It powers itself by using the energy collected and uses another path for the energy to be used. The cost and energy it consumes won't be a problem since they're only in small amounts. A total win-win situation.

Plutus: The Money Game

Show project 

An offline game based on Dumb Ways to Die but for financial literacy. This game will raise financial literacy and awareness with the help of four concepts: earning, spending, saving, and donating.

Other contributors



Stat - Your Virtual Clinic

Show project

When my classmate and her mother could not physically tend to their diseases because of COVID-19, Stat: Your Virtual Clinic created. Stat was my first app concept. It introduced and gave me a career in product design.

Stat has won multiple awards like the National Science and Engineering Fair PH (NSEF PH), SF Tech UX Competition, Social Innovation in Health Initiative (SIHI).

Other contributors



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