

Ray Cielo Briones

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EDUCATION

Cavite State University - Main Campus | Indang, Cavite

Sept. 2023 - Jun. 2027 (Expected)

Bachelor of Science in Computer Science

- **Courses:** Computer Programming, Discrete Mathematics, Web Systems and Technologies, Advance Database Management, Data Structures and Algorithms, Fundamentals of Information Systems, Data Logic Design, Information Management, Software Engineering, Networks and Communication, Operating System, Application Development and emerging Technologies
- **Honors:** Deans Lister (Every Semester)

TECHNICAL SKILLS

Languages (ordered by proficiency): Javascript, Typescript, Python, C++, Java, C, Move

Tools and Frameworks: React, React Native, Next.js, Node.js, Docker, Redis, Prisma, Tailwind CSS, Flask, Express.js, Nest.js, Firebase, Supabase, Google Gemini API, Apache Spark

RELEVANT EXPERIENCE

GuestPulse | Ireland (Remote)

Feb. 2026 - Apr. 2026

Junior Data Engineer

- Contributed to the development of a scalable 4-stage ETL framework (Raw to Curated) using Apache Spark and Python 3.11 on AWS Glue, leveraging Apache Iceberg for ACID-compliant data storage.
- Developed modular data transformations within a Vertical Slice Architecture, applying Protocol-Oriented Design principles to ensure strict decoupling and high testability of business domains.
- Implementing efficient data processing workflows by utilizing incremental processing patterns and data partitioning strategies (by Date and Property) to optimize query performance and reduce S3 costs.
- Collaborating on the expansion of a custom Task Orchestrator, creating dependency-aware data models and tasks to automate complex workflows and ensure fault-tolerant execution.
- Improved the accuracy and computational efficiency of guest profile deduplication using Splink by optimizing blocking strategies to reduce the comparison space. Calibrated match probability thresholds to balance precision and recall, and integrated Term Frequency (TF) adjustments to enhance string similarity scoring.

Upwork | Remote

Dec. 2025 - Jan 2026

Software Engineer Freelancer

- Architected the end-to-end data pipeline for an AI advertisement video generator, utilizing Mermaid Charts to visualize and streamline complex user workflows.
- Spearheaded the mobile-to-web system migration, optimizing performance to increase video generation limits by 650% (from 8 seconds to 1 minute).
- Re-engineered the core system design, achieving significant reductions in API token usage, data processing latency, and operational costs.
- Implemented a tiered draft validation system, a cost-saving feature that prevented resource wastage for the client and optimized credit usage for end-users.

Codebility | Remote

Nov. 2025 - Jan. 2026

Full-Stack Developer Intern

- Implemented UI interfaces for the mobile application featuring the business set up of the application for business owners.
- Integrated Firebase Authentication to secure user logins and manage sessions, alongside other Firebase Cloud Services for real-time data storage and backend logic.
- Collaborated with a development team under the supervision of a Team Lead to translate business requirements into functional mobile features.
- Optimized application performance and UI responsiveness to ensure a seamless experience for users tracking their loyalty points and rewards.
- Implemented the back-end integration for the application's main feature for adding, editing, and deleting programs and rewards using express.js.

Eskwelabs | Remote

Oct. 2025 - Dec 2025

Automation Engineer Intern

- Collaborated with a cross-functional team, including a workflow architect, to develop and implement automation workflows using n8n.
- Transformed project architecture designs into functional automation pipelines that streamline internal processes.
- Configured and Integrated various APIs, triggers, and nodes within n8n to enhance data flow and task efficiency.
- Tested, Debugged, and Refined workflows to ensure stability, scalability, and accurate data processing.
- Contributed to documentation and providing feedback on workflow performance and optimization.
- Created an automated workflow of a monthly outreach email for Eskwelabs stakeholders using n8n.
- Write scripts for data manipulation for streamline processing of data within the workflow.
- Created two AI agents that generates personalized emails monthly for stakeholders based on the upcoming event of Eskwelabs and the stakeholder's past interaction with the company.

GabAI | Software Engineering Course Project

Oct 2025 - Jan. 2025

Full-Stack Developer

- Built an AI-powered interview coach with real-time voice interaction using the Google Live Speech API.
- Implemented résumé-processing features to generate structured insights for personalized coaching.
- Developed backend infrastructure using Supabase (auth) and PostgreSQL (database).
- Utilized Livekit's SDK for the AI agent pipeline and the Room creation for both User and AI agent.
- Designed and optimized the conversational AI pipeline, improving response flow and performance.

GrabEat | OOP Course Project

Jan. 2025

Full-Stack Developer

- Developed a mobile application about a food delivery application that is focused on local restaurants and reaching rural areas using React Native, implementing the backend with Object-Oriented Programming (OOP) principles such as classes, inheritance, abstraction, and encapsulation.
- Collaborated with a UI/UX designer and technical writer to create the application prototype and comprehensive project documentation.
- Focused on writing modular and maintainable code, ensuring scalability and clarity in the system's structure.

Automated Attendance System| Capstone Project

Feb. 2023 - May 2023

Embedded System Programmer

- Developed an automated attendance system using RFID technology powered by an Arduino Uno microcontroller.
- Programmed the system in C++ using the Arduino IDE, enabling automatic student identification and attendance logging.
- Collaborated with a cross-functional team, including an embedded engineer responsible for hardware design and integration.
- Focused on hardware–software integration, optimizing system accuracy and real-time data processing for reliable performance.

PROJECTS

Mixpanel Clone Web App | *Personal Project*

January. 2026

- Developed a WebApplication that has the same User interface and Functionalities as Mixpanel's Data Filtering visualization
- Implemented the Front-end using Next.js framework, Tailwind CSS for styling, and Shadcn and React-Query Builder for the UI components which are deployed on Vercel.
- Build the Backend using a containerized instance of express.js connected to a database that is deployed on Render.
- The database is PostgreSQL which lives in the cloud provider Supabase.

NFT Minting App | *Personal Project*

May 2025

- Developed an NFT minting application within the Aptos ecosystem as part of a cohort-based learning program at *The Blokc*.
- Integrated Petra Wallet authentication to enable users to securely mint NFTs directly on-chain.
- Built the frontend with React, ensuring a clean and intuitive user interface.
- Designed and deployed the smart contract using Move, leveraging Aptos' blockchain infrastructure for efficient and secure minting.

AI Voice Assistant | *Personal Project*

Oct. 2024

- Developed a voice-enabled AI web application powered by Google Gemini Flash 2.5 Pro, enabling users to converse with the AI through speech and receive both voice and text responses.
- Implemented the frontend using HTML and CSS for a clean and minimal interface.
- Built the backend with Node.js, handling real-time speech recognition, API integration, and response synthesis for an interactive conversational experience.

CERTIFICATIONS & BADGES

OPSWAT Academy | **Critical Infrastructure Protection**

Mar. 2025 - Mar. 2026

- Gained foundational knowledge of critical infrastructure protection (CIP) concepts.
- Learned how to identify critical networks and understand OPSWAT certification requirements.
- Navigated and utilized the OPSWAT Academy platform and certification structure.

Google Cloud Skill Badge | **Implement Load Balancing on Compute Engine**

Mar. 23 2025

- Demonstrated skills in configuring load balancing and managing Compute Engine instances.
- Deployed virtual machines and containerized applications using Google Kubernetes Engine.
- Utilized Cloud Shell and gcloud commands to create and manage network and HTTP load balancers.

IBM | **Security on IBM Z**

Apr. 25 2025

- Gained knowledge of advanced mainframe security concepts including pervasive and quantum-safe encryption.

- Learned strategies for data protection and securing digital infrastructures.

IBM | AI on IBM Z

Apr. 25 2025

- Explored integration of AI with mainframe systems for improved model inferencing and prediction accuracy.
- Learned to leverage Gen AI, AI accelerators, and optimized stacks for efficient AI deployment.

HACKATHONS/COMPETITIONS

C(Old) (ST)art | Old.St Labs

Oct. 2024

- Collaborated with a team to develop Eatsy, a food delivery web application designed for real-time shared orders among multiple users.
- Participated in a rapid prototyping hackathon, completing the full cycle from idea conception to prototype and pitch presentation.
- Built a collaborative delivery system that enables users to track and manage shared orders simultaneously across devices, ensuring seamless coordination and transparent order management.

Base Batch (APAC) | BASE

Apr. 2025 - May 2025

- Competed in an international Web3 hackathon (APAC) hosted on the Base network, focusing on Stablecoin innovation.
- Completed a prototype-to-pitch development cycle within one month.
- Built and deployed a Next.js dApp using the Base SDK, integrating stablecoin payments, rewards (“Bits”), and a freelancer leaderboard.
- Designed with Web2-friendly onboarding to ensure accessibility for users with no crypto background.