DIEGO LOPEZ MAGDALENO

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EDUCATION

CETYS University   Ensenada, B.C. Graduating July 2027
B. Sc. in Software Engineering   *GPA 3.9/4*

LEADERSHIP & EXTRACURRICULAR

InternClub   Ensenada, B.C. Summer 2023 -
A community of college students focused on developing programming skills and building real-world experience to land internships

- **Mentored 20+ students** in resume building, project creation and interview preparation resulting in 3 internship placements.
- **Collaborative environment:** Work in teams on challenging projects to simulate real-world coding tasks.
- **Internship preparation:** Mock interviews, resume reviews, and portfolio building to get internship-ready.
- **Hands-on coding practice:** Build real-world projects and solve problems to sharpen your skills.

WORK EXPERIENCE

Software Engineering Intern - Meta   Menlo Park, June 2025 - August 2025
ClinicAll Project & Metrics Core Capabilities Team Contributions.

- Designed and developed ClinicAll, a hospital management system with role-based authentication and authorization using **Auth0, React, Node.js, PostgreSQL, and Prisma.**
- Built a real-time notification system for patient appointments using **Socket.IO**, with notifications stored in a **priority queue** and processed via scheduled cron jobs.
- Implemented a drug interaction engine to detect conflicts between drugs and symptoms, modeling complex many-to-many relationships in a **graph database structure** for efficient querying.
- Integrated custom typeahead search for drugs (FDA API) and symptoms, **improving search speed and accuracy**; added **AI-powered** interaction checks.
- Contributed to the Metrics Core Capabilities team, delivering bug fixes and improvements within **Meta's internal codebase**, while collaborating in discussions to ensure reliability of metrics systems.

Sweetberry   Ensenada, B.C. July 2024 - December 2024
Web Developer for a frozen yogurt shop

- Developed and deployed a full-stack website using the **MERN** stack, enhancing workflow efficiency and improving the overall customer shopping experience.
- Designed the backend with **NodeJS** and **MongoDB** to allow users to rate ice cream flavors, implementing **caching mechanisms** to ensure each user can only rate a flavor once.
- Created an **interactive web app** dashboard for live management of ice cream flavors and menu using **ReactJS and TailwindCSS** to enhance the frontend appearance.

MAJOR PROJECTS

Conchu-page   Ensenada, B.C. February 2024
An e-commerce site for my own clothing brand, "Conchu-2"

- Launched an e-commerce website for my clothing brand "Conchu-2" by developing it with pure HTML, CSS, and JavaScript, enabling customers to easily browse and purchase products online.
- Designed an **intuitive user interface** allowing customers to browse products and customize shirts with various options (size, color, design) before purchasing.
- Implemented a seamless checkout process that integrates WhatsApp as the final platform, allowing users to view their order details and payment information to easily complete their purchase.

What to do in…?   Ensenada, B.C. February 2025 – May 2025
A web application to help users find new places to visit in their city

- Engineered a **robust** and **scalable backend** with **Spring Boot and PostgreSQL**, achieving fast and reliable data handling for location-based searches across hundreds of test queries.
- Implemented **AI-driven recommendation system**, boosting user engagement by tailoring suggestions based on visited places and preferences in new cities.
- Led end-to-end project planning and **architecture design**, driving all major technical decisions and ensuring a scalable, maintainable system.

SKILLS

PROGRAMMING LANGUAGES
Proficient: Javascript, Java
Familiar With: Python, C, C++

TECHNOLOGIES
React.js, Redux.js, node.js, Express, MySQL, MongoDB (NoSQL), Firebase, Git, SpringBoot, HTML, CSS, Tailwind, Supabase, JSON, IntelliJ, VSCode, WebSockets, Figma and Vercel.

AWARDS
3rd Place at the State Math Olympiad (2022)
NASA Space Apps Hackathon Participation (2024)