

Carla Boggio

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About me

Computer Engineering student passionate about Computer Vision, IA, Ethereum, and web development.
Motivated to innovate, learning, and contributing to impactful projects.

Education

AUSTRAL UNIVERSITY

Pilar, 2022–2027

Computer Engineering

- **Relevant Courses:** Operating Systems, Algorithms and Data Structures, System Design, Systems Engineering, Algebra, Mathematical Analysis.

Experience

WORK EXPERIENCE

Dapps Factory — Buenos Aires

- **February 2025 – August 2025 — data engineering**
 - Data extraction from Dynamo, with Glue and Lambdas, real-time update with S3 with Lambdas, SQL queries with Athena, managed with Lambdas and React for graph visualization

ACADEMIC PROJECTS

Universidad Austral — Pilar

- **December 2025 – Present — Autonomous Vehicle Development ([Repository](#))**
 - Developed a **self-driving prototype** utilizing **computer vision** for real-time navigation and obstacle avoidance.
Implemented **object detection models** to identify and track surrounding vehicles, ensuring safe interaction within dynamic environments.
Engineered **lane detection algorithms** and pathfinding logic using **OpenCV** to maintain stable trajectory tracking and lane centering.
Integrated **sensor fusion** and motor control to translate software commands into physical movement, effectively reducing system latency.
- **March 2025 – August 2024 — Created a Facial recognition system ([Repository](#))** ◦
Developed a facial recognition system with multiple stages: face detection using RetinaFace; alignment with Mediapipe facial landmarks and OpenCV rotation; normalization using Mediapipe landmarks and OpenCV masking; and recognition via both KNN classification and identity matching through ArcFace-generated embeddings.
- **August 2024 – November 2024 — Created a Programming Language | Kotlin ([Repository](#))** ◦ Led the design and implementation of a custom programming language in Kotlin. ◦ Incorporated support for arithmetic operations and control structures, enhancing my understanding of compiler design.
- **March 2024 – July 2024 — Front-End with React and TypeScript ([Repository](#))** ◦

Collaborated with a peer to develop a web application using React and TypeScript.

- Implemented state management and API integration to create a dynamic and user-friendly interface.

- **August 2023 – December 2023 — Fullstack with Express, React, TypeScript, Prisma, HTML, CSS ([Repository](#))**

- Worked with a team of 9 developers to build a CRUD application with a RESTful API.
- Developed a dynamic front-end and leveraged a Prisma-powered database.
- Built endpoints in the back-end to support CRUD operations.

Skills

- **Languages:** Java, TypeScript, Python, SQL, Haskell.
- **Developer Tools:** Visual Studio Code, Git, Postman, IntelliJ IDEA, WebStorm.
- **AWS:** API Gateway, Lambda, Glue, Dynamo, S3, Athena.
- **Computer vision:** OpenCV, Mediapipe, Deepface, Retinaface, arcface, PyTorch, Face detection, face Recognition, camera calibration, Anaconda and Poetry Configuration for virtual environments, ●
- **Technologies/Frameworks:** Node.js, React.js, Spring Boot.
- **Soft Skills:** Good communication, teamwork, fast learner.
- **AI Agents:** Design and development of AI agents, integration with Claude, multi-agent orchestration,
- **Languages:**
 - English Proficiency.
 - Spanish: Native level.

HACKATHONS & COMPETITIONS

Stellar Give Hackathon | *1st Place August 2025*

- Developed an innovative solution on the **Stellar** network, securing the top prize
- Focused on leveraging blockchain for social impact and transparent giving.

Meridian Stellar Hackathon | *5th Place September 2025*

- Ranked in the top 10 globally during the Stellar conference hackathon.
- I won a scholarship to go to Brazil for the Meridian conference and Stellar hackathon

Stellar House / Stellar Hack+ / Stellar Lab *November 2025*

- Won a scholarship to go to BA to Stellar Hack and Dev connect
- Active participation in a series of intensive building sprints focused on the Stellar ecosystem.
- Implemented advanced smart contracts and financial primitives using **Soroban**. ●
- Collaborated on decentralized patent funding and research projects (Lumina Lab).

ETHGlobal | *Participant 2025*

- Participated in one of the world's most prestigious Ethereum hackathons, building decentralized applications and exploring the latest L2 solutions.

Bosch Future Mobility Challenge | *Team Aura December 2025 - today*

- Got selected to participate in challenge
- Developed autonomous driving algorithms for a 1:10 scale vehicle, focusing on real-time lane detection and obstacle avoidance using Computer vision.
- Implemented computer vision pipelines for traffic sign recognition and intersection navigation

Volunteering

- **Volunteer at Organized Students** | Worked in web development with CSS and HTML (December 2022 – July 2023).