Octavio Percivaldi
Frontend Developer at Improving

Summary

Passionate and versatile Computer Scientist with a strong background in full stack development, distributed systems, embedded programming, and AI-driven applications. Skilled in designing and delivering robust, scalable software systems. Experienced in working across startups and enterprise-level teams, with a keen interest in AI and computer graphics.

Key Expertise

- Programming
- Problem Solving
- Algorithms and Data Structures
- Team Collaboration
- Communication

Work History

Frontend Dev @ Improving - Jan 2025 to Present

[04/2025] Collaborating with the Triaxiom team to build the KEPT app, using React Native, and their website keptpromises, using React.
[03/2025 - 04/2025] Worked with a small Improving team on a web application for PetroCanada, focusing primarily on frontend development. Built reusable components, created Storybook entries for every component in the app, and implemented unit and integration tests using Jest.
[01/2025 - 03/2025] Worked with the Improving team on the Shopify store for Alen, building configurable embeddable apps, using React and Liquid. Created two different applications both to create bundles of products and display how the purifiers fit in your home, and to return and exchange products.

Full Stack Dev @ Leniolabs - Nov 2020 to Jan 2025

[10/2023 - 01/2025] Worked along with the TriNet team to develop multiple AI-powered POCs and applications leveraging LLM models to analyze, summarize and interpret large datasets. Contributed to creating chatbots using RAG architecture, creating and architecturing embeddings databases, creating agents using technologies like LangChain, analyzing extensive datasets, building Angular frontends, and developing Python and NodeJS backends. Involved in the deployment of several of the POCs in

AWS EC2s, Lambdas, etc. Additionally, contributed to the TriNet design system in Angular, helping develop and improve several reusable components used across applications.

[06/2023 - 10/2023] Worked with a Lenio internal team to build a video conversation analyzer and summarizer. Using Python with OpenAI's API and Hugging Face models for the backend, while implementing the frontend using NextJS.

[09/2022 - 06/2023] Worked along with the Taxfix team in order to build several new mobile applications both for Android and iOS using React Native for the frontend, and Fastify plus services like Google Cloud Platform for the backend.

[2020 - 09/2020] Worked along with ICE Mortgage Technology teams in the cloud-based application EPPS (Encompass Product and Pricing Service), with ReactJS, helping with the project architecture, and mainly focusing on creating new front-end features like making new reusable components, updating old legacy code, and writing new easy maintainable code following the best React practices.

Impact in Leniolabs

- Participated in Lenio Bootcamp 2021 as an assistant teacher.
- Participated in Lenio Bootcamp 2023 as the main teacher, teaching Git, basic programming concepts using JavaScript, and frontend programming, such as HTML, CSS, and how to create React projects from scratch, connecting it to an API, using React Hooks, and more.

Tech Stack used at Leniolabs: React, React Native, Angular, Figma, JavaScript, TypeScript, Fastify, MySQL, PostgreSQL, Material UI, HTML, CSS, SASS, Git, HTML, CSS, Python, Scikit-learn, Numpy, Pandas, Matplotlib, LangChain, NextJS, AWS Lambdas, AWS EC2.

Full Stack Dev @ Zenrise - May 2020 to Nov 2020

Worked improving the ExpensasOnline web application, created AlquileresOnline landing page from scratch and worked on its web application using NestJS for backend and NextJS for the frontend.

Impact in Zenrise: Led the initiative to transform AlquileresOnline UI components into a design system, enhancing consistency, scalability, and efficiency.

Tech Stack used at Zenrise: React, JavaScript, NestJS, NextJS, MongoDB, Git, HTML, CSS.

Full Stack Dev (Internship) @ EurekaLabs - Aug 2019 to May 2020

Worked creating a new internal application for scraping data from Glassdoor from scratch, using Python, Node and React. Also worked on the backend of JobNation, and the backend of YallaBaby.

Impact in EurekaLabs

- Improved the data collection of Glassdoor by +150% (compared to their previous scraping tools).
- Created the “combo recommendation” algorithm for YallaBaby Box, to automatically choose the best combination of products for the client using the knapsack problem algorithm with a DP.

Tech Stack used at EurekaLabs: React, JavaScript, NodeJS, Python, Scrapy, MongoDB, Git, HTML, CSS.

Personal Projects

Networks

Created a distributed database system (Delay Tolerant Mongoose) that works on Delay Tolerant Networks (DTNs) and auto synchronizes its data with all the instances in the network, using the Bundle Protocol v7 implementation of µD3TN. Used Delay Tolerant Mongoose for creating delay and disruption tolerant applications for space and deep ocean communication.

Repo: Delay Tolerant Mongoose.

Data Science and IA

Learned from the most basic concepts, such as the creation of linear models, regression, clustering, to more advanced algorithms, such as the creation of convolutional neural networks and deep learning.

Repo: Machine Learning.

Education

Universidad Nacional de Córdoba - FaMAF [2017 - 2022]

Bachelor in Computer Science Average: 8.15 (over 10)

Languages

- Spanish (Native)
- English (Fluent - C2 Level)
- Italian (Intermediate - B1 Level)

Additional Information

- Participated at the STINT Workshop 2022 conference presenting my thesis work (Delay Tolerant Mongoose) as one of the main talks.
- Presented Delay Tolerant Mongoose at a D3TN workshop and at a conference in Saarbrücken University, Germany.
- Attended the Initial Competitive Programming Course at FaMAF in 2019 and got the 1st position at the final competition. Participated at the Training Camp 2019 (Competitive Programming intensive course).
- Participated at the ICPC TAP 2019 (Argentine programming tournament) and classified to the ICPC regionals, 4th position at FaMAF, 33th position in Argentina (over +100 teams).
- Got 1st position at the Cordoba Hackerspace CTF along with 0xCAFECAFE (my team).