



Andrea Piras

Software Engineer, Machine Learning Consultant

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PROFILE

Software Engineer with experience in full-stack web platform development and machine learning solution design. Specialized in React/Node.js applications and the integration of artificial intelligence models for risk analysis, performance forecasting, and business decision support.

SKILLS

FRONTEND

React, Redux Toolkit, React Query, React Router, Vue, Vite, TypeScript, JavaScript, HTML, CSS, Bootstrap, Chart.js, Plotly, i18n, Formik/Yup, WebSockets

BACKEND

Node.js, Express.js, REST & GraphQL APIs, PostgreSQL, Sequelize, Redis, Passport.js, JWT/Sessions, Socket.IO, Flask, FastAPI, Django, Swagger, Stripe, Azure Web PubSub

ML & DATA SCIENCE

TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Plotly, Pillow

PROGRAMMING LANGUAGES

Python, JavaScript, TypeScript, C, C#, Java, MATLAB

DEVOPS & TOOLS

Git, Docker, ESLint, Husky, Jest, Sentry, Axios

DATABASES

PostgreSQL, MongoDB, SQLite, ArangoDB

EMBEDDED & IOT

AWS, AWS IoT Shadow, ESP8266, Arduino

EXPERIENCE

Software Engineer and Machine Learning Consultant

07/2022 - Present

[Visioscientiae Srl \[Full-Time\]](#)

Development of the SYRTO® platform (financial intelligence) using Node.js Express (backend) and React (frontend). Implementation of web applications and services for dashboards and business/market analysis workflows. Design and integration of machine learning models and neural networks for risk analysis, performance forecasting, and decision support systems. Contributed to HIKU, an AI-based decision-making platform.

Software Engineer and Machine Learning Consultant

03/2022 - 07/2022

[University of Cagliari \[Research Grant\]](#)

Research and development of AI algorithms in the field of human interpretation.

Software Engineer

02/2019 - 05/2019

[Visioscientiae Srl \[Internship\]](#)

350-hour internship during which a framework was developed to connect decisions generated by a deep learning model to a trading system.

Web Developer

2018 - 2020

[TSN - Tourism System and Networking \[Part-Time\]](#)

Creation and maintenance of web interfaces (ideasardegna.it, costarei.com, villasimius.com, castiadas.com) and related web applications.

EDUCATION

M.Sc. in Computer Science

2019 - 2023

[University of Cagliari](#)

Grade: 106/110

B.Sc. in Computer Science

2016 - 2019

[University of Cagliari](#)

Grade: 110 with honors

High School Diploma

2011 - 2016

[Giordano Bruno Scientific High School, Muravera \(SU\)](#)

Grade: 96/100

LANGUAGES

Italian - Native

English - B2 (Certified - CLA UniCA)