



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)