

Sandro Baccega

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WORK EXPERIENCE

WIRECUBE | FULLSTACK DEVELOPER

Graz, Austria | 2022 – 2024

- Developed and maintained websites utilizing **Adobe Experience Manager**, **React** and **Tailwind CSS**, while building custom developer tools, like a NodeJS CLI, to automate multi-repository tasks and streamline workflows, reducing development time and errors.
- Implemented modern technologies—such as **Shadcn/ui**, **Turborepo**, **Zustand**, and **Next.js**—to accelerate development and improve scalability in multiple new projects.
- Created an ad-hoc **Vite** proxy to facilitate the styling for a custom CMS using **SCSS**.

SMC TREVISO | FRONTEND DEVELOPER

Treviso, Italy | 2019 – 2022

- Developed and maintained complex features for an analytics dashboard written in **Typescript**, managed with Agile methods and using **React** (Material UI, Redux), **NodeJS** and **Elasticsearch** as the technology stack.
- Revamped the CI / CD pipeline in **Gitlab** using **Docker** and new unit tests. My version of the pipeline was up to **4x** faster than the previous implementation.
- Created a custom visual regression testing software using Playwright to easily detect regressions in the UI during a library update.
- Mentored 2 junior developers who were involved in the project.
- Implemented a CD solution for **Liferay DXP** using: **Jenkins (Java)**, **Docker** and **Kubernetes**.

EDUCATION

Master's Degree in Computer Science

Venice, Italy

CA' FOSCARI UNIVERSITY OF VENICE

Thesis: An Implicit Neural Representation for Reflectance Transformation Imaging (RTI)

Teacher Assistant (TA): Object Oriented programming

Bachelor's Degree in Computer Science

Venice, Italy

CA' FOSCARI UNIVERSITY OF VENICE

Thesis: Refactoring of a continuous integration pipeline for automatic building and deploying of Liferay plugins

PERSONAL PROJECTS

BACCEGASANDRO.DEV

REACT.JS

My online portfolio created with **React.js** using **Next.js** and **react-spring**.

SMARTPHONE BASED RTI

PYTHON, OPENCV

Reflectance Transformation Imaging (RTI) using footage from two smartphones without requiring an expensive light dome, created in Python utilizing OpenCV.

LE GIUMELLE

REACT.JS

My family's farm website, built with **Next.js**, **Stripe**, **Tailwindcss** and **Shadcn/ui**

PAGERANK / HITS COMPUTATION

C++

C++ implementation of the PageRank algorithm (Google) by Sergey Brin and Lawrence Page and the HITS algorithm (Ask.com) by Jon Kleinberg, which uses a CSR (Compressed Sparse Row) matrix and mmap to minimize memory usage.

SKILLS

Languages: Italian (native), English (proficient)

Web Development: React, TypeScript, Javascript, Html5, CSS, SCSS, Next.js, shadcn/ui, Material UI, React Query, tRPC, Webpack, Vite, Redux, Zustand, Npm, Yarn, Pnpm, NodeJS

Tools: Git, Docker, Github Actions, Gitlab CI, MySQL, PostgreSQL, Kubernetes

Other: Python, OpenCV, C, C++, Java