

Sandro Baccega

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WORK EXPERIENCE

WIRECUBE | FULLSTACK ENGINEER

Graz, Austria | 2022 – 2024

- Developed and maintained websites for thousands of daily users utilizing **React**, **Typescript** and **Tailwind CSS** with **Adobe Experience Manager**.
- Built custom developer tools, like a NodeJS CLI script, to automate multi-repository tasks and streamline workflows, **speeding up deployment** and reducing errors.
- Created **reusable component libraries** with 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 of a custom CMS using **SCSS** and **Tailwind CSS**.

SMC TREVISO | FRONTEND ENGINEER

Treviso, Italy | 2019 – 2022

- Developed and maintained complex features, such as Drag and Drop or custom list sorting, in a web app written in **Typescript**, using **React** (Material UI, Redux), **NodeJS** and **Elasticsearch** as the technology stack.
- Enhanced the CI/CD pipeline in GitLab, achieving a **4x** speed increase using Docker and new unit tests.
- Created a custom visual regression testing software using Playwright to easily detect regressions in the UI.
- 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**, deployed on Vercel

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**. It can also use some state-of-the-art **ML models** to relight the subject in a photorealistic way, including a brand new one, proposed in my Master's thesis, with an Implicit Neural Implementation.

LE GIUMELLE

REACT.JS

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

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 (fluent)

Web Dev: React, TypeScript, Javascript, 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, Bash, PHP, \LaTeX