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, **significantly 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 of a custom CMS using **SCSS** and **Tailwind CSS**.

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.
- 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**.

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 re-light 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**

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 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