Sandro Baccega

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WORK EXPERIENCE

SMC TREVISO | Frontend developer   Treviso, IT | 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 on **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** 3 junior developers that were involved in the project.
- Implemented a CD solution for **Liferay DXP** using: **Jenkins**, **Docker** and **Kubernetes**.

FREELANCE | Fullstack developer   Padua, IT | 2016 – 2019

- Developed an invoicing software using: **React**, **MySQL** and **PHP**. This software was able to generate valid XML invoices that adhered to the italian's *Fatturazione elettronica* standard.
- Developed websites for various companies in **HTML**, **CSS** and **PHP**, using **Wordpress** as CMS.

EDUCATION

Master in Computer Science   Venice, IT
Ca' Foscari University of Venice
Teacher Assistant (TA): Object Oriented programming

Bachelor in Computer Science   Venice, IT
Ca' Foscari University of Venice
Thesis: Refactoring of a continuous integration pipeline for automatic building and deploying of Liferay plugins

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**.

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, that uses a CSR (Compressed Sparse Row) matrix and mmap to minimize memory usage.

RESTAURANT MANAGER ⬀   Angular, MongoDB, NodeJS, Express
Small web application to manage a restaurant built using the **MEAN** technology stack with **Typescript** and **SCSS**. Native desktop and mobile versions of the frontend application are created using the **Electron** and **Cordova** frameworks.

SKILLS

Languages: Italian (native), English (proficient)
Programming Languages: JavaScript, TypeScript, Python, LaTeX, Java, PHP, Arduino, Bash, C, C++
Web Development: React, JavaScript, TypeScript, HTML/CSS, Material UI, SCSS, NodeJS, Angular
DevOps: Docker, Kubernetes, Gitlab CI, Github Actions, Jenkins
Other technologies: Git, Redis, MongoDB, MySQL, Playwright/Puppeteer, Apache Cordova, Electron