

ALESSANDRO BELFIORE

+39 328 8046556
alessbelf@gmail.com
github.com/alessandrobelfiore

SKILLS

Engineering

- **Web Client Development** - Javascript, React.js, HTML, CSS
- **Enterprise Web Application Development** - Python, Nodejs
- **Object Oriented Languages** - C, C++, Java
- **Technologies** - Docker, Git, Unity

Languages

- **Italian** - Mother tongue
- **English** - Fluent, Cambridge C1 Certificate

PROJECTS

- **Parallel computation on cellular automata - C++, *FastFlow*** *July 2021*
 - I developed a framework in C++ to exploit parallel programming in the computation of algorithms on cellular automata, utilizing the *FastFlow* library.
- **Spectre-resistant test environment - OCaml, LLVM** *April 2021*
 - I contributed to the development of a simulated virtual machine capable of optimazing and executing simple instructions, written using OCaml and/or LLVM, together with two other colleagues.
 - We used an algorithm based on the study presented in this paper to automate the process of protecting the code from Spectre attacks.
- **React dashboard generator - React.js, MaterialUI** *March 2020*
 - I worked in a team to develop a system capable of creating web dashboards to monitore fleets of IoT industrial devices.
 - I implemented the template of the web dashboard and managed its interactions with the generator and the database.
- **Android puzzle game - Java, Android Studio** *June 2019*
 - I built a puzzle game using Java and Android Studio, employing WiFi-Direct to implement a multiplayer mode and a database to store the history of the matches played.

EDUCATION

Università di Pisa

- MSc in Computer Science, *April 2020 - in progress*
Programming and Principles of Software
- BSc in Computer Science *September 2015 - April 2020*
 - "Design and developement of a framework for the generation of dashboards in the contest of Industry 4.0"

Thesis Advisor: Daniele Mazzei

Liceo Scientifico Boggio Lera di Catania

- High School Diploma *September 2010 - June 2015*

OTHER SKILLS

Digital skills

- Google Suite, Microsoft Office, Bash, L^AT_EX

Organisational skills

- Teamwork experience gained working, both in person and remotely, on several projects including university courses and my bachelor thesis.
- Leadership experience gained through several years as team leader and coach of amateur e-Sports teams.