

education

University of
Milano Bicocca
2018 - Current

Master's Degree in Computer Science

- Electives: Advance Machine Learning, Data Analytics, Large Scale Data Management, Data & Text Mining, Probabilistic Models, Cloud Computing, Software Architectures.

University of
Milano Bicocca
2015 - 2018

Bachelor's Degree in Computer Science

- 110/110 cum laude
- Thesis: Reinforcement Learning for Global Optimization - Comparing learned policies to Bayesian Optimization

experience

2Program S.r.l
July 2017 - Current

Frontend Web Developer

- Designed and implemented public websites focusing on SEO and best practices
- Developed interactive and responsive progressive web applications using Vue.js
- Maintained and expanded existing Laravel projects as requested by clients
- Customized Wordpress themes and developed Wordpress plugins

Google Summer of
Code @ KDE e.V.
May 2017 - Sept. 2017

Open Source Fullstack Web Developer

- Designed and developed a server-side rendered progressive web app with Vue.js
- Developed a backend service to interface with various APIs using Flask
- Implemented unit and end-to-end tests for the web app
- Containerized the web app and the backend service for usage with Docker

WikiToLearn, a KDE
project
Dec. 2015 - Sept. 2017

Fullstack Developer and Open Source Contributor

- Took part in the decision process of an already-existing open source project
- Planned the product and the architecture with other developers and sysadmins
- Developed themes and extensions for the Mediawiki platform
- Maintained and improved forks of existing open source projects

S.C.T. Informatica
Summer 2013 & 2014

Intern and Software Developer

- Developed a web application for designing and previewing prefabricated buildings

skills

- **Python 3** Flask, Pandas, NumPy, Jupyter, Matplotlib
- **Machine Learning** Supervised Learning, Reinforcement Learning
- **Databases** MySQL, MongoDB, SQLite
- **Operations** Docker, Ansible, Bash Scripting
- **HTML5 & CSS3** Pug, Sass
- **JavaScript ES6 & Node.js** Socket.io, jQuery, Axios
- **Vue.js** Vuetify, Vuex, Server Side Rendering
- **PHP 7** Laravel, Lumen, Mediawiki, Wordpress
- **Other Languages** Java, Typescript, Rust (basics)
- **Version Control** Git, GitHub, GitLab
- **Development Practices** Unit & E2E testing

personal projects

- **HMM Text Corrector** *Python, NumPy, Flask*
Text corrector based on Hidden Markov Models with novel ideas to improve performance and accuracy.
- **album-splitter** *Python, BeautifulSoup, ffmpeg*
A script to automatically split a single-file Mp3 album into its tracks; Supports scraping metadata from Wikipedia.
- **Nikoro - a Telegram Chatbot Framework** *Node.js*
A framework for developing plugin-based chatbots, focusing on ease of use for the plugins developers.
- **PlayStoreLinks_bot**
Python, BeautifulSoup & lxml, Unit Testing
A bot for an online forum handling from 50 to 100 requests daily for more than 5 years.
- **All my Projects:** github.com/crisbal

other

- **Speaker at Milano Digital Week** How do computers learn? *March 2019*
- **Speaker at unixMib** Hitchhiker's Guide to Web Development *March 2019*
- **Mentor for Google Summer of Code** KDE e.V. *Summer 2016*
- **Mentor for Google Code-In** KDE e.V. *Winter 2015 & Winter 2016*