Gianluca**Guarro**

about

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github.com/lucaguarro
lucaguarro.github.io

programming

(1-10 profiency)
C++ (9)
JavaScript (8)
VBA (8)
Python (4)
Mathematica (4)
PHP (3)

tools/SDKs

Microsoft Access, C++
Builder, QT,
Latex, HTML5, CSS3,
node.js, JQuery,
Angular 4, Ionic 2, git,
SQL, NoSQL

languages

English (native)
German (intermediate)
Italian (intermediate)

citizenship

USA
Italy

hobbies

Hackathons
Chess
Piano
Rockclimbing
Diving
Camping

Experience

7/16 - 1/18 **Software Analyst at ASCA Inc.** Redondo Beach, CA

- Revamped company's bayesian network analysis software by increasing functionality and completely refacing the GUI using C++ and C++ Builder
- Performed tests and debugging assignments on company's multi-valued logic analysis and discrete simulation software to improve functionality and verify results
- Created and tested an intuitive VBA interface for a client to create, manage, and export to Excel, databases representing Event Sequence Diagram models for launch vehicle safety analysis.

6/15 - 8/15 **Physics Research Intern at University College Dublin** Dublin, Ireland

- Researched and gave a presentation on the frustration properties of Artificial Spin Ice
- Modified proprietary code to run simulations of experiments from which I could extract necessary data from

Education

9/17 - Pres. **California State University, Long Beach** Long Beach, California
Computer Science

9/12 - 7/16 **University of California, Santa Barbara** Santa Barbara, California
B.S. in Physics

9/14 - 12/14 **UCEAP at Freie Universität Berlin** Berlin, Germany

6/13 - 7/13 **UCLA Study Abroad** Rimini, Italy

Projects

4/17 **Twitter Fact Check**

- Chrome extension that detects political tweets and uses the tweets themselves as search queries to the Guardian to display a list of links to related articles directly inside of the tweet.
- Tools used: Javascript, Guardian Web API, Chrome API, HTML, CSS

3/17 **Playlistant**

- Single-page web application that prompts the user to login to his/her Spotify account to then upload a txt file of a list of songs. The app will then parse this file to create a new playlist with all of the songs already added to it.
- Tools used: Angular 4, Typescript/Javascript, Spotify Web API, HTML, CSS

1/17 **Peek**

- Chrome extension that allows the user to preview all the tabs of the current window in three different nicely formatted views making it both quicker and more convenient to navigate tabs.
- Tools used: Javascript, Chrome Tabs API, HTML, CSS

Honors

4/12 **Eagle Scout in the Boy Scouts of America** Torrance, California

- For my eagle scout project, I designed a light-weight greenhouse and organized and coordinated the work of a team of volunteers for its construction. The greenhouse was donated to my highschool.