

# Daniel MEDINA

github.com/dmedinag

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## Education

**Candidate for Bachelor's Degree in Computer Science and Engineering** by Universidad Carlos III de Madrid, Madrid, Spain 2013-2018.

**University of Waterloo** exchange program during academic year 2016-2017 for Bachelor of Computer Science Degree.

**Relevant Courses:** Design of Interactive Systems, Computer Security and Privacy (UW), Computer Graphics (UW), Files and Data Bases, Algorithms and data structures, Operating Systems Design, Concurrent and Parallel Programming (UW), Machine Learning, Business Management, Computer Networks, Software Engineering.

## Technical Skills

- Programming languages with which I feel comfortable:
  - General programming: C++ (main) / C / Java / Python
  - Scripting: Python / Lua / bash / Makefile
  - Web: Javascript / Python / PHP
  - Databases: SQL
- Formatting languages:
  - Paper publishing: L<sup>A</sup>T<sub>E</sub>X
  - Notes taking: Markdown
  - Web formatting: HTML and CSS
  - Others: Bison (parser generator), Lex, Yacc
- Frameworks I am familiar with:
  - jQuery, Bootstrap, UIKit (JS).
  - OpenGL (C++ 3D Rendering).
  - Flask (web back-end for small projects).
  - Weka (Machine Learning utilities such as clustering and classification algorithms).
  - Bullet (3D Physics Engine).
  - $\mu$ C++ (extension of C++ providing more concurrency resources).

## Technical Skills applied to CS relevant projects

- Cube exploration using **3D OpenGL** Rendering (C++).
- Automatic *PacMan* player using AI/ML techniques (**Weka, Python**).
- *Padding Oracle Attack* script for cookie decryption/encryption (**Python**).
- More @ [Github](#).

## Work Experience

- **Exam Organizer** (supervisor, invigilator and administrator), *British Council Madrid*, June 2012-Present:
  - Bilingual mentor responsible for student conduct as well as making their experience with the British Council a memorable one.
  - Responsible for the administration of exams before assessment by Cambridge University ESOL.
- **Bike Shop expertee**, *Mammoth Mountain Bikes*, Summers 2012 and 2013:
  - Shop tender and bike mechanic, appreciated by my experience as a racer for many years.
- **Social media volunteer**, *Mammoth Mountain Bikes*, Events during from 2014 to 2016:

Served as a volunteer in several Mountain Bike competitions held by the club. I was part of the core team gathering sponsors for the race and managing logistics, working as both a stunt man in videos promoting the events and as a negociator with brands.

## Languages

- Native Spanish
- Fluency in English
- Basic French

## Activities and interests

- Mountain Biking
- Piano
- Other sports: Muay Thai, Squash, Ping Pong
- Traveling