

# Francesco Mecca

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<b>Date of Birth</b>	31 <sup>st</sup> October 1995	<b>Personal blog</b>	<a href="http://francescomecca.eu">francescomecca.eu</a>
<b>Nationality</b>	Italian	<b>Github</b>	<a href="https://github.com/FraMecca">FraMecca</a>
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## Work Experiences

**10/2019** [Inria, Parsifal team](#)

**Present** *Intern*

For a period of six months I am working on my thesis regarding the verification a posteriori of the pattern matching compiler for the OCaml language. My work is supervised by [Gabriel Scherer](#) and is published on [Github](#).

**10/2018** [Symmetry Autumn of Code](#)

**01/2019** *Participant*

Simmerty Investments sponsored my work on a concurrent garbage collector for the [D runtime](#) as part of the Simmetry Autumn of Code initiative. I worked under the mentorship of Leandro Lucarella of Sociomantic. All of my work can be is open source and accessible from my github account. A blogpost summing up the effort can be read [here](#).

**10/2017** [UCSB Security Lab](#)

**06/2018** *Research Assistant*

Starting October 2017 till April 2018 I worked as a research assistant for Giovanni Vigna and the Shellphish team at the security lab of the University of California Santa Barbara (UCSB). The focus of my research is on the exploitation and weaknesses of machine learning models applied to malware detection.

**09/2016** [Free Architecture for Remote Education](#)

**06/2017** *Backend Developer*

FARE (Free Architecture for Remote Education) is a smart learning environment developed at the Polytechnic of Turin for the professors Angelo Raffaele Meo and Marco Mezzalama by me and Leonardo Favario. FARE is currently used as a learning platform for the developing of MOOCs and remote lessons for hospitalized children. FARE won the second prize in the contest “Talent Italy” indicted by MIUR, Ministero dell’istruzione, dell’università e della ricerca, [Italy’s education ministry](#).

**06/2016** [Berkman Klein Center for Internet and Society](#)

**09/2016** *Intern*

During Summer 2016 I worked as an intern for the Berkman Klein center of the Harvard University (US) with the collaboration of the Nexa Center for Internet and Society of the Polytechnic of Turin where I developed the Network of Centers Semantic Wiki.

## Education

**09/2017** Master of Computer Science in Networks and Information Systems

**Ongoing** *University of Turin*

Most of the classes and exams were attended in Italian

10/2014 Bachelor of Science in Computer Engineering  
07/2017 *Polytechnic University of Turin*  
Most of the classes and exams were attended in English  
Grade: 93/110

09/2008 Scientific High School "Galileo Galilei" of Macerata  
06/2014  
Sezione sperimentale piano nazione informatica: Progetto Brocca

## Software Engineering Skills

### ■ Programming Languages

*D* - Self taught  
*OCaml* - Self taught  
*C* - Self taught, University  
*Python* - Self taught  
*Java* - University  
*Kotlin* - Self taught, University

### ■ Miscellaneous

*MySQL/Mariadb* - University  
*git* - Self taught

### ■ Operating Systems

High proficiency with Gnu/Linux OSes and the shell  
Experience with Posix and GLibc  
Currently using Gentoo as my daily driver

## Most relevant books read

- H. Cormen: Introduction to Algorithms
- H. Abelson, G. Sussman: Structure and Interpretation of Computer Programs
- E. S. Raimond: The Art of Unix Programming
- J. Kurose, K. Ross: Computer Networking: A Top-Down Approach
- J. Gudstedt: Modern C
- A. Alexandrescu: The D Programming Language
- A. Goldberg, D. Robinson: Smalltalk-80: The Language and its Implementation

## Certifications

09/2014 CAE - Certificate of Advanced English: level C1/C2