

Marc Benedí

MASTER STUDENT

Munich, Germany

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Education

Technische Universität München

M.S., INFORMATIK

Munich, DE

October 2019 - Present

Universitat Politècnica de Catalunya

B.S., COMPUTER SCIENCE - GPA 8.04/10

Barcelona, ES

September 2014 - July 2018

- **University of Edinburgh**, Edinburgh, UK — Semester Abroad Spring 2018 - GPA 9.70/10

Escola Pia Santa Anna Mataró

HIGH SCHOOL - GPA 8.00/10

Mataró, ES

September 2010 - June 2014

Experience

Visual Computing Laboratory - Technische Universität München

SCIENTIFIC AUXILIAR ACTIVITIES

Munich, DE

April 2020 - Present

- Build a High-Performance Computing Cluster for the laboratory
- Set up Slurm Workload Manager as a job scheduling system for the cluster
- Set up and maintain the systems using different technologies such as LDAP, NFS, PXE, etc.
- Designed and built a user interface and backend to allow users to see their jobs and resource usage

Helm Mobile

SOFTWARE ENGINEER

Barcelona, ES

September 2018 - September 2019

- Developed Android applications using Kotlin
- Developed an API with Kotlin and SQL
- Developed a client using VUE.js

European Organization for Nuclear Research

INTERNSHIP

Geneva, CH

June 2019 - September 2018

- Designed a cluster for the BE-OP-LHC team at CERN
- Developed an Ansible script to deploy the cluster in any group of machines
- Improved the BE-OP-LHC team systems' scalability, availability and response time a 118%

Universitat Politècnica de Catalunya

UNIVERSITY RESEARCH SCHOLARSHIP

Barcelona, ES

September 2017 - July 2018

- Studied new methods to convert Binary Decision Trees into Conjunctive Normal Form
- Developed a software to solve and represent more efficiently Boolean Satisfiability Problems (SAT)

Ernst & Young

INTERNSHIP

Barcelona, ES

June 2017 - September 2017

- Developed new features and fixed bugs for NH hotels
- Developed Front-End using HTML, CSS, JS, jQuery
- Developed Backend using Java

JEDI

ANDROID TEACHER

Barcelona, ES

Winter/Summer 2017

- Taught basic Android development to 25+ students in a 40h course.

Awards

Distinction awards

UNIVERSITAT POLITÈCNICA DE CATALUNYA

- Computer Security | 2017
- Software Architecture | 2017
- Operative Systems | 2015

Barcelona, ES

Distinction awards

UNIVERSITY OF EDINBURGH

- Reasoning Agents | 2018
- Software Testing | 2018

Edinburgh, UK

Hackathon award

HACKUPC

- GFI sponsor prize

Barcelona, ES

2017

Hackathon award

FOODHACKS

- First prize
- Lidl sponsor prize

Berlin, DE

2016

Hackathon award

STIRHACK

- First prize

Stirling, UK

2016

Award

MANGO INNOVATION LAB

- Finalist

Barcelona, ES

2013

Projects

MINT

AMALFI ANALYTICS

- Android application which allows redistributing patients across different hospitals.

2018

Music Language

- A compiler and interpreter for music pieces which allows the user to write music and play it or export it to MIDI format

Firefighter exams

OPOSICIONES BOMBERO

- Android application containing support materials for firefighters

Restia.io

- A software for restaurant's management

LDAP Triggers

- Tool that allows executing arbitrary scripts when LDAP server changes

Skills

Languages

- English | C1
- Spanish | Native
- Catalan | Native

Certificates

- Advanced Certificate, Cambridge Exams, 2019
- Introduction to Deep Learning | JEDI, 2018
- First Certificate | Cambridge Exams, 2017
- Introduction to Android Development | JEDI, 2017
- Introduction to HTML, CSS, JS | JEDI, 2016

Open Source Contributions

- Renderers | Update Dependencies | 2019

Programming Languages and Frameworks	Python, PyTorch, Kotlin, Java, C++, Javascript
Git	Experienced with branches, rebasing, conflicts, release workflow, etc
Android Studio	Familiar with development, testing and debugging
Systems	Self-hosted e-mail server, websites, APIs and VPN
Leadership	Head of formation at Jedi UPC, a university teaching non-profit and Vice-president at FECJE
Teaching	Taught various courses at Jedi UPC and some workshops
Teamwork	Developed multiple production quality projects for third parties

Memberships

FECJE: Catalan Federation of Junior Enterprises

Barcelona, ES

VICE-PRESIDENT

2018

- Managed multiple Junior Enterprises in Catalonia
- Defined goals and objectives for the federation

JEDI

Barcelona, ES

HEAD OF FORMATION

2016-2018

- Gained leadership skills
- Organize meetings with companies who wanted to sponsor the courses
- Responsible of a department with more than 10 members
- Organized and supervised more than 15 courses for more than a 100 students

JEDI

Barcelona, ES

MEMBER

2015-2018

- Taught young members things about the university
- Developed multiple project for the association and external clients

Publications

European Organization for Nuclear Research

Geneva, CH

CONSTRUCTION OF A KUBERNETES CLUSTER IN THE CERN TECHNICAL NETWORK AND AUTOMATING ITS DEPLOYMENT WITH

2018

ANSIBLE

Universitat Politècnica de Catalunya

Barcelona, ES

DESIGN OF AN ENVIRONMENT FOR SOLVING PSEUDO-BOOLEAN OPTIMIZATION PROBLEMS

2018