



DAMIANO DONATI
SOFTWARE ENGINEER
M.Sc. COMPUTER SCIENCE STUDENT

CONTACTS

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PROFILE

I'm interested in Software Engineering, Backend/Infrastructure Engineering and in building blazing fast software platforms with a strong focus on reliability and simplicity.

SKILLS

PYTHON (FLUENT)
GOLANG (PROFICIENT)
JAVASCRIPT (PROFICIENT)
(NODE, ANGULAR, JQUERY)
C / C++ (SOME EXPERIENCE)
JAVA (SOME EXPERIENCE)
BASH/SH (SOME EXPERIENCE)

SQL (FLUENT)
HTML/CSS (FLUENT)

TOOLS and SYSTEMS

GIT / GITHUB
LINUX SYSTEM ADMINISTRATION
CONTAINERIZATION:
DOCKER, DOCKER COMPOSE
DATABASES:
MYSQL, MONGODB, REDIS, RETHINK DB
BIG DATA and DATA MINING:
APACHE SPARK
MACHINE LEARNING:
TENSORFLOW, THEANO, SCIKIT LEARN
INTERNET of THINGS (IoT):
ARDUINO, RASPBERRY PI

LANGUAGES

ITALIAN (MOTHER TONGUE)
ENGLISH (PROFESSIONAL LEVEL)

EDUCATION

Master's Degree in COMPUTER SCIENCE @ UNIVERSITY of TRENTO

2016 - Present

I'm doing my Master's Degree (Laurea Magistrale) in Computer Science specializing in **Data Science**.
I'm currently studying and applying the latest **BIG DATA**, **DATA MINING** and **MACHINE LEARNING** techniques to manipulate and extract informations from data.

Bachelor's Degree in SOFTWARE ENGINEERING @ UNIVERSITY of TRENTO

2012 - 2015

I've done my Bachelor's Degree (Laurea Triennale) in Information and Comunication (Software) Engineering at the University of Trento following characterizing classes like:

PROGRAMMING (C), **OBJECT-ORIENTED PROGRAMMING** (C++, JAVA), **OPTIMIZATION ALGORITHMS**, **SOFTWARE ENGINEERING**, **SOFTWARE PROJECT MANAGEMENT**, **RELATIONAL DATABASES**, **NETWORKS** and **NETWORK SECURITY**

EXPERIENCES

SOFTWARE ENGINEER INTERN @ DIGISTYLE.it

June 2016 - January 2017

- Developed Frontend for various webservices and apps in **HTML5**, **CSS3**, **JAVASCRIPT** (**AngularJs**, **VueJS**)
- Wrote resilient Backends in **GOLANG** and **NODE JS** with **SQL** and **NOSQL** (**MONGODB**) databases
- Designed and deployed **CLOUD** Server Infrastruct. w/ **DOCKER** & **KUBERNETES** which serves ~1M users/year

SOFTWARE ENGINEER INTERN @ DISI (CS Department, UNITN)

September 2015 - November 2015

- Developed backend for real-time applications usage analytics in **NODE JS** and **RETHINKDB**
- Saved **90%** of the requests to backend by **pushing recomputed metrics** as opposed to polling them

SOFTWARE ENGINEER INTERN @ FBK

June 2013 - September 2013

- Developed mobile app for Winter Universiade 2013. **ANDROID** with backend in **JAVA** and db in **MONGODB**
- It sustained **5K+** weekly user sessions during the event, used by people from more than 40 different nations

VOLUNTEER FIREFIGHTER @ PROVINCE OF TRENTO

September 2011- Present

PROJECTS

GRONTAB | GOLANG library for parallel & persistent job scheduling and running

- **Crontab-like syntax** for time-based scheduling of **Parallel commands executions**
- **High Test Coverage** and Deployed in **Production**. **Lightweight footprint** (statically-linked binary)
- **Persistency** and **Consistency across restarts** thanks to a **key/value store** with ACID transactions
- Open Source code here: <https://github.com/damdo/grontab>

EVG | FullStack Web platform for events management

- Responsive **Frontend** in **HTML5/CSS3/ANGULAR** with minification an input sanitization
- Robust **Backend** with **JSON REST** endpoints, JWT auth and gzip/deflate compression (**NODEJS**)
- **Document Store DB** with join and changefeed support (**RETHINKDB**)
- Deployed with **containers** in an highly available environment with **HTTP/2** (**DOCKER** & **NGINX**)

PROJECT "ESODO" | company infrastructure re-engineerization

- Studied and Developed **company infrastructure re-engineerization** @ **DIGISTYLE.it**
- Deployed **High Available Infrastructure** on **KUBERNETES** & **DOCKER** behind **cloud loadbalancers**
- Configured **virtual-hosts** mechanism in **NGINX** with **HTTP/2** (**TLS certs autorenewal**)
- Developed for the infra a **monitoring & alert system** for crashes/exceptions, notifying via tg/slack/email

AWARDS

ITALIAN DEVELOPERS HACKATHON 3RD TN @ Italy - 2018

GitHub Issues' Dashboard for the official Italian Organization on GitHub (**PYTHON**, **GITHUB APIS**)

OPEN DATA HACKABOT WINNER @ Province of Trento - 2018

Chatbot, with Language Understanding capabilities thanks to OPEN DATA (**PYTHON**, **TELEGRAM APIS**)

IoT(ogheter) HACKATHON WINNER @ MUSE (Trento) - 2014

Wearable armwrist bluetooth transmitter (**PYTHON**, **RASPBERRY PI**)

ICT DAYS HACKATHON WINNER @ University of Trento - 2013

ANDROID application for Winter Universiade 2013 (**JAVA**)

GOOGLE HASH CODE QUALIFICATIONS - 2017 & 2018

Participation at both editions of the Google Hash Code Qualifications (**PYTHON**)