

Alex Saletti



About me

- Birth 21-01-1997
- Based in Lecco, IT
- General I am an italian boy who is fond of IoT and software development, I describe myself as a precise, flexible and reliable person; my interest in studying and learning new subjects is driven by curiosity; I like problem solving (and challenges in general) and I am considered good at teamwork, open to conversation and constructive criticism. Willing to travel on business and smartworking too.
- Goals My current main goals are to move and find a job abroad, to make new experiences and meet new people in order to improve my knowledge and my person; from a business perspective, I'd like to become an experienced (full stack) developer; I would also like to improve my English and learn new languages (possibly German).

Contacts

- | | | | |
|----------|----|------------------------------|--|
| personal | ✉ | saletti97mail@gmail.com | Answer within 1-2 days |
| org. | ✉ | alex.saletti@mail.polimi.it | Answer within 5-7 days, dismissed from 2023 |
| | in | Alex Saletti | Answer within 10-14 days |
| | 🔗 | VLEXX | No answer, repositories consultation |
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Languages

- Italian Mother tongue
- English Good
- Certificate: TOEIC (Listening score: B2++, Reading score: C1)

Education

- 2020– **Computer Science and Engineering (EN)**, *Master's degree*, Politecnico di Milano
Currently I passed all the exams and I completed the master thesis (I'll get the degree on the 20th of December 2022, see next section for more details)
- 2016–2020 **Ingegneria Informatica (IT)**, *Bachelor's degree*, Politecnico di Milano
- 2010–2016 **Liceo Scientifico Tradizionale**, *High school diploma*, IIS Lorenzo Rota

Master thesis

- Title *Storage-accuracy analysis for CSI-based human activity detection: an IoT forensic perspective*
- Supervisors Professor Alessandro Enrico Cesare Redondi, Computer Engineer Fabio Palmese
- Description I started working on my thesis on March 2022; my main goal is to discover a possible correlation between CSI data and what is happening in the surrounding environment and, if such correlation exists, a further goal is to develop a binary classifier that should be able to detect human movement by analyzing received (or sniffed) packets; currently we are using ESP32 modules to generate and receive packets at constant rate, but we are testing routers as receiving devices too in order to figure out if they are powerful enough to compute CSI data analysis.

Experience

Unrelated

Description I have been doing the following jobs in order to keep up with my studies

04/2018– **Food delivery**, *Pizzeria Il Sorriso*, Torre de'Busi (BG)

03/2018– **HP products promoter**, *Praesidium S.p.a.*, Mediaworld, Lecco
03/2018

11/2017– **Shop assistant**, *Mediaworld*, Lecco
02/2018

Skills and projects

Mathematics skills

- I like almost every branch of math, from logic and algebra to probability and statistics, geometry too; I used to tutor some high school students.

Computer engineering skills

- software development and team projects (e.g. the various dev. phases including testing, some IDEs usage and Git versioning system functionality; [here](#) [1] you can find a simple CLI multiplayer online videogame that my colleagues and I developed in Java as 3y thesis);
- client-server and other architectures (e.g. p2p, in the aforementioned videogame we implemented a model-view-controller pattern; [here](#) [2] you can find a 3-tier application I developed, in particular the code for DB connection and dynamic website generation using thymeleaf and [here](#) [3] using JavaScript);
- data (data inspection, manipulation, plotting and statistics using Pandas and MATLAB) and data bases (MySQL DB creation, querying and maintenance, JDBC and basics of JPA);
- network infrastructures and networking (routing mechanisms, OSI model layers and main protocols, such as, in descending layer order, HTTP, FTP, DNS, TCP, UDP, IPv4, ICMP, ARP, IEEE 802.11), wireless networks (WiFi, Bluetooth, ad hoc networks, Mobile IP, TCP over wireless,...);
- IoT (main protocols, e.g. CoAP and MQTT, and communication technologies, e.g. LoraWAN, simulation using Cooja, packet collection and inspection using WireShark, Tiny OS and nesC basics);
- miscellaneous: computer graphics basics (Vulkan, GLSL), distributed systems basics, advanced CPU architectures and computing infrastructures basics.

Programming skills and OSs knowledge

Level	Language/OS	Years	Comment
■■■■■	C	5	Here [4] there is a full implementation of an "entity and relation manager" I wrote as part of my bachelor's degree thesis (I mainly use CLion IDE).
■■■■■	Java	3	It's the first OO programming language I learned, I took part to a 3-people group project consisting in an online game development (socket and RMI solutions are adopted, only CLI is implemented); I also developed a website using Servlets, JDBC and Thymeleaf that can be deployed on an Apache Tomcat local server; I mainly use IntelliJ IDE and Git versioning tool.
■■■■■	Python	2	I mostly use Pandas library for data manipulation and stats production; here [6] there is a collection of scripts I'm writing for master thesis in order to parse CSI data.

■ ■ ■ ■ ■	MySQL	3	<i>A MySQL local server hosting a DB was used as part of all my university projects requiring a persistent storage; I studied Java EE beans, transactions safety and Java Persistence API.</i>
■ ■ ■ ■ ■	JavaScript	1.5	<i>I developed the aforementioned website in an alternative way, using Javascript instead of Thymeleaf; I used Node-Red flows for data manipulation.</i>
■ ■ ■ ■ ■	C++	0.5	<i>A colleague of mine and I developed a Vulkan application consisting in a missile simulator starting from a template, here [5] you can find the full project. I use Visual Studio and Git versioning tool.</i>
■ ■ ■ ■ ■	Windows 10/11	6	<i>I use it for most activities except for those requiring particular environments, such as ESP32 micro-controllers programming and packets sniffing (WireShark).</i>
■ ■ ■ ■ ■	Linux	3	<i>I used Ubuntu and currently I am using Kali most of the time.</i>

Additional information

Personal data processing	(Only for Switzerland) I authorize the processing of my data in compliance with the Swiss laws and regulations on Privacy (LPD, N.235.1 of 19.06.92).
About this CV	I hard-coded this curriculum vitae in \LaTeX , if you find any bugs or private repositories please report them by email; note also that printing this CV may hide hyper-textual links (e.g. contacts and Github repositories).
CV updates	Current version: 27/11/22. You can check for latest version of my resume and download it by visiting my public repository at https://github.com/VLEXX/Resume