

# Curriculum Vitae

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## Personal Information

Name Furkan KARAKAŞ  
Date of Birth 24<sup>th</sup> August, 1995  
Birthplace Istanbul  
Address Quartier Pré-Fontaine 48, 1023 Crissier, Switzerland  
Mobile +41 77 915 99 35  
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Personal Website <https://furkankarakas.github.io/>  
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Civil Status Single  
Nationality Turkey



## Objective

Looking for master's thesis positions in:

- distributed computing,
- cryptography and security, or
- machine learning.

## Education

Sep 2019 – Present **Swiss Federal Institute of Technology Lausanne, Switzerland**  
Msc. in communication systems, specialization in cyber security *Current GPA: 5.29/6.00*  
○ **Teaching assistant** of the fourth semester bachelor course *Signals and Systems in Spring 2020*

Apr 2018 – Sep 2018 **Technical University of Munich Munich, Germany**  
Erasmus+ exchange studies

Feb 2015 – Jul 2019 **Boğaziçi University Istanbul, Turkey**  
Bsc. in electrical & electronics engineering, double major with the department of mathematics, graduation with high honor certificate *GPA: 3.59/4.00*

Sep 2009 – Jun 2014 **Istanbul High School Istanbul, Turkey**  
German high school

## Work Experience

Jul 2020 – Jan 2021 **ABB Corporate Research Center Baden, Switzerland** – Student Internship

- Worked on a project to store the values generated by IoT sensors in a blockchain platform in a secure fashion
- *Hyperledger Fabric* as the underlying private and permissioned blockchain system
- Building a front-end *React.js* application to interact with the blockchain system

Aug 2019 – Jan 2020 **Albert Solino Consultancy California, USA** <https://albertsolinocorp.com/> – Junior Web Application Developer

- Working remotely on a web application development
- Consultancy services in a digital platform
- Performance calculation logic
- Working in the back-end part in Ruby on Rails platform
- Using standard Model-View-Controller (MVC) architectural pattern

Apr 2019 – Jul 2019 **Arçelik Global Istanbul, Turkey** <https://www.arcelikglobal.com/en/> – Project Assistant

- Assisted my team in a project concerning smart-home devices
- Preparation of checklists for the components
- Sensor virtualization in C so that one could send virtual inputs to the components rather than reading from physical sensors

Jun 2018 – Sep 2018 **CAX-SERVICE GmbH Software-Engineering & Messtechnik Munich, Germany** <http://www.cax-service.org/> – Part-time Working Student

- Assisted as a freelancer in developing various software in .NET framework C#
- Windows form applications

Jun 2018 – Sep 2018 **Wörner Medizinprodukte und Logistik GmbH Munich, Germany** – Part-time Working Student

- Accounting, documentation, preparation of Excel sheets, data analysis in Excel

Feb 2018 – Mar 2018 **Accelera Software and Consultancy Istanbul, Turkey** <http://www.accelera.com.tr/contact/> – Internship

- Internship about data mining, machine learning, SQL, and R
- Application of supervised and unsupervised algorithms to business solutions: random forests, linear regressions, logistic trees, etc.

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## Skills & Background Knowledge

### Technical skills

C, Python *Advanced*

C#, C++, L<sup>A</sup>T<sub>E</sub>X, MATLAB, Golang *Intermediate*

Java, HTML, CSS, JavaScript, Node.js, React, Web development technologies *Beginner*

Version control systems (Git)

Basic knowledge of container technologies (Docker and docker-compose)

Basic knowledge of Linux-based OS (Ubuntu)

VS Code (My favorite code editor)

### Personal skills

High level in communication skills

Sociable and proactive

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## Languages

English, *C2*

o TOEFL iBT Internet-based examination score *102* out of *120*

German, *C1*

o Abitur Diploma *1.9/4.0* (1.0 is the best score in the German system)

French, *A1*

Turkish, *Mother Tongue*

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## Interests

- Computer games, mainly multi-player ones such as Massively multiplayer online role-playing games (MMORPGs) and Multiplayer online battle arenas (MOBAs)
- Gym & Fitness
- Constantly learning new things in the IT world

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## References

Available upon request

Furkan Karakaş, Lausanne, Sunday 20<sup>th</sup> June, 2021

*F. Karakaş*