

# Oday Darwich

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**Computer Scientist, Research & Innovation Engineer** with various experiences in design, innovation and conceptualization. Most of my work is at the overlap of innovation/deep tech. *I believe that we are essentially social creatures and we achieve our greatest aspirations when we work together, not as individuals*

**Diverse Placements:** I performed technical software developments in areas including:

Full Stack Development, Optimization Algorithm Data Analysis,	Software development life cycle, Scrum, Lean	Conceptualization Modeling, Functional Design	Collective intelligence tools Design Thinking
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## PROFESSIONAL EXPERIENCE

**European Council for Nuclear Research (CERN) - IdeaSquare** 📍 Geneva, Jan 2018 - Present

**Design & Innovation Engineer in Deep Tech - Researcher & Serial Learner**

- ✕ **Research & Innovation Development:** Designed a novel solution, called *New Alexandria* for collaborative documentation of breakthrough innovations based on Distributed Ledger Technology, ML & Graph Search Algorithms
- ✕ **Design and Facilitation Support:** Designed, organized and facilitated an international workshop
- ✕ **Business intelligence analysis:** Co-designed & engineered a 5 year strategy for CERN IdeaSquare
- ✕ **Collaboration Establishment:** Established collaborations with NGOs, Corporations and International organizations

**University of Geneva/-Citizen CyberLab** 📍 Geneva, Switzerland, 2017 to 2019, 35%

**Research Assistant and Program Coordinator**

- ✕ **Research and Assessment:** Assessed & Researched existing documentation platform and surveyed users experiences
- ✕ **Reporting & Analysis:** Produced a research investigation report and recommendations for future developments
- ✕ **Software Development:** Adapted a collaborative online documentation platform from MIT called [SDGinProgress](#)

**eResearch Technology, Inc.** 📍 Geneva, Switzerland, 2016 to 2017, 50%

**Junior Software Developer and Project Manager Assistant**

- ✕ **Testing, Analysis and Concept Engineering:** to harmonize the existing system based on user needs & preferences
- ✕ **Software Development and Team Management:** Built an (MVP) and reported recommendation for further development

**World Economic Forum** 📍 Geneva, Switzerland, Mar 2016 to June 2016, 40%

**Data Migration Engineer**

- ✕ **Software Development:** Developed & resolved the backup. Restored the data and did the data migration for the iOS

**VINCI Energies** 📍 Geneva, Switzerland, Mar 2013 to Aug 2013

**Junior Technical Project Manager - Thesis Project**

- ✕ **Concept Engineering:** Researched and well-conceptualized an Internal Enterprise Content Management web app system and Collaborated with a team of full stack web developers to develop the solution. I **tested** it and **created** tutorials for users

## SKILLS

- ✕ **Software Development Skills:** Cloud Platform (AWS), Data Structure and Algorithm, Git, Emacs, UNIX, Scrum, Leanm
- ✕ **Problem Solving Skills:** Interpersonal skills, Design thinking & collective intelligence practices, Lobbying, Leadership
- ✕ **Computer programming and coding:** Computer programming and coding: Python, Ruby on Rails, JavaScript, C#.Net, ASP.net, RDBMS (MySQL, PostgreSQL) HTML, CSS, JavaScript, jQuery, Django, Telerik, Jira, BugTracker, VBA, UML modeling, Matlab, Haskell\*, Emacs, Atom IDE, Visual Studio

# EDUCATION

**University of Geneva, M.Sc. Computer Science** 📍 Geneva, Switzerland, Nov. 2018

✕ **Specialties:** Algorithms and Parallel Computing, Stochastic Information Processing, Semantics, Modeling & Verification, Theoretical Computer Science, Machine Learning, Data Mining and Information Retrieval

✕ **Research & Development:** Submitted a thesis on *Comparing Digital Platforms for Challenge-based Learning*

**University of the Littoral Opal Coast, M.Sc. Electrical Engineering** 📍 Lille, France, Aug. 2014

✕ **Specialties:** Digital electronics, , Optoelectronics, Electromechanics, Electromagnetism

**University of the Littoral Opal Coast, M.Sc. Industrial Information Technology** 📍 Lille, France, Aug. 2013

✕ **Specialties:** Industrial data processing, Predictive analytics, modelling, Signal & Image Processing

**Lebanese University, B.Sc. Computer & Communication Networks Engineering** 📍 Beirut, Lebanon, Aug. 2012

✕ **Research:** Submitted a thesis on *Simulation by cellular automata for natural risk management*

## ENTREPRENEURIAL EXPERIENCES<sub>2017 TO 2019</sub>

**Founder of The Quantum FutureX Initiative**

✕ QFX is an open initiative for forward-thinking people to step forward and collaborate on creating the futures of quantum. It brings hardcore scientists, creatives and industry members to work together on high risk, high reward projects

✕ **Established** collaborations with IBM, Alphabet (Google X), CERN, EPFL, ITU, State of Geneva. **Onboarded** more top people for the board of the association from Europe and the US and **Raised multiple funding** for QFX

**Founder of The Mobility Hackathon Community**

✕ **Established** collaborations with CERN, University of Geneva, ABA foundation, ITU, Ai4Good Summit. **Onboarded** more top people for the Jury from various industry and research labs and **Raised funding**

**Initiated a collaboration** for [New Alexandria](#), €1 Million EU project [↗](#)

**Organizer** of Physics Meets Blockchain Workshop for open source development & blockchain at CERN [↗](#)

**Chairmen and Organizer** of *Beyond Quantum Technologies & AI panel at AI4Good Summit* [↗](#)

**Consultant for ITU** [↗](#) on Innovation in Quantum Tech.. I submitted reports & recommendation [↗](#) [QT Group](#)

**Consultant for the U.S. Mission to the UN** [↗](#) on the organization and setting up a world wide Hackathon [↗](#)

## PUBLIC SPEAKING ENGAGEMENTS

**The Quantum Future, Innovation and Community**

The International Telecommunication Union [↗](#) workshop on Quantum Information Technology

📍 Shanghai, China, 2019

**CERN Quantum Initiative & Vision for Blockchain for Open Innovation**

Aarhus University, Department of Physics and Astronomy [↗](#), private talk for senior researchers

📍 Aarhus, Denmark, 2019

**Future Emerging Technologies**

Table Unstable KYOTO SCIENCE OUTREACH [↗](#) workshop on Quantum Computers & Blockchain

📍 Tokyo, Japan, 2018

## COMMUNITY ACTIVITIES

2015 - Present : Geneva Debate Club [↗](#)

2018 - Present : CERN Entrepreneurship Meetups [↗](#)

2016 - 2018 : Swiss Cyber-Security meetup [↗](#)

**Operating Systems:** Debian GNU/Linux, Windows, macOS

**References:** Prof. John Ellis [↗](#), Dr. Markus Nordberg [↗](#), Dr. François Grey [↗](#), Dr. Ben Segal [↗](#)

## MOOC & RECENT LEARNING

**Learning:** MIT Quantum Information Science I, II [↗](#)

**Reading:** InvestED [↗](#), Quantum Computations and Quantum Information [↗](#), How to Design Programs [↗](#)

**Trilingual:** French, English and Arabic