

OdayDarwich

28 YO, 📍 Cologny/Geneva, 1223 ☎ +41 (0)76 753 9203 ✉ oday@zeeroday.com 🌐 github.com/zeeroday 🔗 zeeroday.ch

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:

Optimization Algorithm Data Analysis, RDBMS	Software development life cycle, Scrum, Lean	Conceptualization Modeling	Full Stack Development
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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 using Distributed Ledger Technology, ML & Graph Search Algorithms
- ⦿ **Collaboration Establishment:** Established different collaboration with NGOs, Corporations and International organizations, of which a collaboration between Akasha Foundation and CERN IdeaSquare for a €1 million grant
- ⦿ **Design and Facilitation Support:** Designed, organized and facilitated senior international workshop using collective intelligence and design thinking tools
- ⦿ **Business intelligence analysis:** Co-designed and engineered a 5 year strategy for CERN IdeaSquare

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

Research Assistant and Program Coordinator

- ⦿ **Research and Assessment:** Assessed & Researched more than 15 online existing documentation platform and surveyed users experiences to find the best way to document online
- ⦿ **Reporting & Analysis:** Produced a research investigation report and recommendations for future development
- ⦿ **Software Development:** Adapted a collaborative online documentation platform from MIT called [SDGinProgress](#). Programmed and maintained the code in Ruby on Rails, jQuery, JavaScript, PostgreSQL, solr search engine

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

Junior Software Developer and Project Manager Assistant

- ⦿ **Testing, Analysis and Concept Engineering:** Tested, Analysed and reviewed the existing Excel VBA solution. I also framed the project, collected the data, & selected actions based on user needs & preferences
- ⦿ **Software Development and Team Management:** Build an automatized web app system (MVP) in collaboration with 2 full stack developers; tested it with users and reported future recommendation for further development. MVP was build using Functional Design, UML Modeling, Macro VBA, Python, Django, MySQL, HTML, CSS, JS

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

Data Migration Engineer

- ⦿ **Software Development:** Developed and resolved the backup. I restored the data from old system and did the data migration for the new iOS system using the following technologies: Python, MySQL, OS, MS-Office, ATOM IDE

VINCI Energies 📍 Geneva, Switzerland, Mar 2013 to Aug 2013, Thesis Project

Junior Technical Project Manager

- ⦿ **Concept Engineering:** Researched and well-conceptualized an Internal Enterprise Content Management web app system that replaced Lotus. I collaborated with a team of full stack web developers to develop the solution. I tested it and created a user friendly tutorials for more than 80 users. I used for the latter, VB.net, Jira and SmartSheet

Software Development Skills: Cloud Platform (AWS), Data Structure and Algorithm, Git, Emacs, UNIX, Scrum, Lean

Problem Solving Skills: Interpersonal skills, Design thinking & collective intelligence practices, Lobbying, Leadership

Computer programming and coding: Python, Ruby on Rails, JavaScript, C#.Net, ASP.net, MySQL, PostgreSQL, HTML, CSS, JavaScript, jQuery, Django, Telerik, Jira, BugTracker, VBA, UML, 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_{2017 to 2019}

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