

PIERRE SCHUTZ

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EDUCATION

Master of Science, Data Science

Swiss Federal Institute of Technology Lausanne (EPFL)

September 2019 - Present

Lausanne, Switzerland

- Minor in Management, Technology & Entrepreneurship: Principles of Finance, Microeconomics, Project Management & Risk Analysis.
- Relevant Courses: Machine Learning, Applied Data Analysis, Natural Language Processing, Statistics for Data Science, Convex Optimisation.
- Machine Learning projects in Python using Sklearn, PyTorch. Data Analysis and preprocessing with Pandas, Matplotlib.

Exchange program, Electrical engineering and Computer Science

Hong Kong University of Science and Technology (HKUST)

September 2018 - June 2019

Hong Kong, China

- Research Project: Decentralized file-sharing application using Ethereum blockchain and BitTorrent. Create a prototype using Java for the client and Solidity (Ethereum) as Backend. Collaborate as the first author on an ongoing research paper, with Dr.Chatzopoulos (under the supervision of Pr. Hui).
- Relevant Courses: Computer and Network Security, Database Management Systems, Signal Processing, Digital Communications, Machine Learning, Stochastic Modeling.

Bachelor of Science, Communication Systems (5.11/6)

Swiss Federal Institute of Technology Lausanne (EPFL)

September 2016 - June 2018

Lausanne, Switzerland

- Selected amongst 4% of first-year students to participate in the exchange program outside of Europe.
- Build an Alps panorama drawer and a GameBoy console emulator in Java.
- Relevant Courses: Computer Networks, Algorithms, Theory of Computation, Information Science, Object-Oriented Programming, Functional Programming, Computer Architecture, Discrete Math, Analysis, Algebra, Probabilities & Statistics.

EXPERIENCE

Software Engineer Intern

Inpher

June 2019 - August 2019

New York, USA

- Develop an application to allow Inphers customers to manage locally deployed virtual machines through a userfriendly interface. (Using Vue.js, Javascript, Node.js, Docker).
- Acquire working knowledge on secret computing and privacy-preserving machine learning subjects.

Technical Consultant, Software Developer

Junior Enterprise EPFL

March 2018 - Present

Lausanne, Switzerland

- Part of the technical consulting team: help project managers in case of technical difficulties.
- Consult on IT projects about databases, mobile applications, e-commerce applications, API.
- Design specifications of mobile or web projects.
- Test and analyze the behavior of mobile applications, and mobile frameworks (Matchmore.io).
- Design and develop Android applications in Kotlin.

ASSISTANTSHIP

Teaching Assistant, EPFL

September 2017 - June 2018

Courses:

- Advanced Information, Computation, and Communications I (Prof. Arjen Lenstra).
- Practice of Object-Oriented Programming (Prof. Michel Schinz).
- Advanced Information, Computation, and Communications II (Prof. Bixio Rimoldi).

Tasks:

- Help students to do their exercises, answer their questions, debug their code projects, correct and grade their homeworks.

LEADERSHIP ACTIVITIES

Administrator & Co-Founder, Blockchain Student Association

September 2018 - Present

- Co-founded a student organization at EPFL that shares knowledge, issues, and develops projects in the field of distributed technologies for the university community.
- Manage the organization, the public relations for legal subjects. Help the treasurer to manage sponsorship contracts.

Vice-President & Treasurer, Blockchain Society

December 2017 - Present

- Lead a non-profit organization working on the development of the decentralized technologies ecosystem in Switzerland through the network of Swiss Universities.
- Give lectures and workshops about cryptography, smart contracts, blockchains, and decentralized systems.
- Manage accounts and finance of the organization, sponsorship negotiations, and provider contract negotiations.

Coach, Coaching EPFL

September 2017 - July 2018

- Provide moral and academic help to students during their first year at university.
- Organize social events, weekend activities.
- Manage and give lectures during final examinations revisions.

CODING PROJECTS

Java: Android e-commerce application (Kotlin), Alps panorama drawer, Platform computer game, Decentralized file-sharing system using Ethereum and BitTorrent.

Web (Javascript, Vue.js, Nuxt): JSON file visual editor for Inpher's XOR Machine.

Python: *Machine learning* course projects, IMDB Box office estimation Kaggle competition.

Scala: *Functional programming* and *Parrallelism & Concurrency* courses projects.

LANGUAGES

French	Native
English	Bilingual
German	Limited Working Proficiency