

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