Secure and Private AI (https://classroom.udacity.com/courses/ud185)

About this Course

What's the earliest we can predict cancer survival rates, and what schools do the best job of educating children? You can only answer these questions with very rare access to private and personal data, but access to this personal data requires that you master methods for the principled protection of user privacy. While not all privacy use cases have been solved, the last few years have seen great strides in privacy-preserving technologies.

This free course will introduce you to three cutting-edge technologies for privacy-preserving AI:
  - Federated Learning
  - Differential Privacy
  - Encrypted Computation.

You will learn how to use the newest privacy-preserving technologies, such as OpenMined's PySyft. PySyft extends Deep Learning tools—such as PyTorch—with the cryptographic and distributed technologies necessary to **safely and securely train AI models on distributed private data.**

We encourage you to enter the **Secure and Private AI Scholarship Challenge from Facebook** to both take the course and have a chance to win a scholarship for the Deep Learning or Computer Vision Nanodegree programs.

https://www.openmined.org/

https://iamtrask.github.io/2017/03/17/safe-ai/

https://medium.com/udacity/introducing-udacitys-secure-private-ai-course-fe20bfa3b0ff

UNIVERSITY OF MARYLAND

08/02/2020

Peter Lorenz

has successfully completed

Hardware Security

an online non-credit course authorized by University of Maryland, College Park and offered through Coursera

Gang Qu, Professor
Director, Maryland Embedded Systems and Hardware Security Lab
Electrical and Computer Engineering Department
University of Maryland, College Park

UNIVERSITY OF MARYLAND

08/03/2020

Peter Lorenz

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Cryptography

an online non-credit course authorized by University of Maryland, College Park and offered through Coursera

Jonathan Katz, PhD
Professor
Department of Computer Science
University of Maryland

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COURSE CERTIFICATE

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Peter Lorenz

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Usable Security

an online non-credit course authorized by University of Maryland, College Park and offered through Coursera

Jennifer Golbeck, Ph.D.
College of Information Studies
University of Maryland

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08/03/2020

Peter Lorenz

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Software Security

an online non-credit course authorized by University of Maryland, College Park and offered through Coursera

Professor Michael Hicks
Department of Computer Science
and the Maryland Cybersecurity Center (MC2)
University of Maryland, College Park
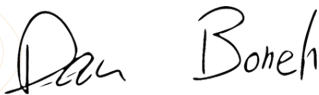
Stanford | ONLINE

05/12/2020

Peter Lorenz

has successfully completed

Cryptography I

an online non-credit course authorized by Stanford University and offered through Coursera

Dan Boneh

Dan Boneh
Professor of Computer Science
Stanford University

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Verify at coursera.org/verify/Z9F9PRZRJJCB

Coursera has confirmed the identity of this individual and their participation in the course.

4 Courses

Cryptography and Information Theory

Symmetric Cryptography

Asymmetric Cryptography and Key Management

Cryptographic Hash and Integrity Protection

05/18/2020

Peter Lorenz

has successfully completed the online, non-credit Specialization

Applied Cryptography

This specialization is intended for the learners interested in or already pursuing a career in computer security or other cybersecurity-related fields. Through four courses, the learners will cover the security of information systems, information entropy, classical cryptographic algorithms, symmetric cryptography, asymmetric/public-key cryptography, hash functions, message authentication codes, digital signatures, key management and distribution, and other fundamental cryptographic primitives and protocols.

Verify this certificate at:
coursera.org/verify/specialization/9GTHAPYF3YTU

UNIVERSITY OF
TORONTO

4 Courses

Introduction to Self-Driving Cars

State Estimation and Localization for Self-Driving Cars

Visual Perception for Self-Driving Cars

Motion Planning for Self-Driving Cars

05/09/2020

Peter Lorenz

has successfully completed the online, non-credit Specialization

Self-Driving Cars

This Specialization gives you a comprehensive understanding of state-of-the-art engineering practices used in the self-driving car industry. By interacting with real data sets from an autonomous vehicle (AV), you'll implement methods for static and dynamic object detection, localization and mapping, behaviour and maneuver planning, and vehicle control — all through hands-on projects using the open source simulator CARLA. You'll learn from a highly realistic driving environment that features 3D pedestrian modeling and environmental conditions. When you complete the Specialization successfully, you'll be able to build your own self-driving software stack and be ready to apply for jobs in the autonomous vehicle industry.

Associate Professor, Aerospace Studies Director, Toronto Robotics and Artificial Intelligence Laboratory

Assistant Professor, Aerospace Studies Director, Space & Terrestrial Autonomous Robotic Systems Laboratory

Verify this certificate at:
coursera.org/verify/specialization/QYGZW92M6YGM

oxfordenglishtesting.com

Result card for: Peter Lorenz

Organisation name: Graz University of Technology

Test title: Oxford Online Placement Test

Date test taken: 20/02/2018

Results:

Oxford Online Placement Test

Score	Time taken	CEF
107	00:52	C2

Use of English:

Score	Time taken	Use of English
96	00:15	C1

Listening:

Score	Time taken	Listening
119	00:37	C2+

The statistic shows up my programming skills in summer term 2016 in the course "Operating Systems" at the IAIK – Institute of Applied Information Processing and Communications. The programming languages are mainly C, C++ and Assembler.

The following historical commit information, by author, was found in the repository.

Author ⌄	Commits	Insertions	Deletions	% of changes
	209	5092	3647	19.87
	56	1860	523	5.42
Peter Lorenz	381	12901	19639	73.98
Show minor authors (2) ⌄				

Below are the number of rows from each author that have survived and are still intact in the current revision.

Author ⌄	Rows	Stability	Age	% in comments
	2698	53.0	5.1	20.24
	250	82.8	8.8	6.00
	712	38.3	10.4	12.36
Peter Lorenz	6388	49.5	5.2	11.85
Show minor authors (1) ⌄				

The following history timeline has been gathered from the repository.

Show rows with minor work (1) ⌄

Author	2016W10	2016W11	2016W12	2016W13	2016W14	2016W15	2016W16	2016W17
Peter Lorenz								
Modified Rows:	15102	283	708	954	3163	2023	3662	3963

Author	2016W18	2016W19	2016W20	2016W21	2016W22	2016W23	2016W24
Peter Lorenz							
Modified Rows:	32	608	396	1758	4620	2881	3830

PBSOLUTION
55 East Tianlin road,
Xu Hui district, Shanghai

3rd February, 2015

Peter is a highly-motivated software engineer who has proficient developing and designing skills, all this proving extremely beneficial to our company when developing our new website in a very professional way and catalogs designing. Peter is always took a calm, creative and logical to problem-solving, which was particularly useful to give our marketing strategies and organization business parties a western touch. It was a great pleasure to work with Peter in PBSOLUTION for 2 month internship and I wish his continued success with his career.

Will Fan,
Marketing Manager