

EDOUARD DUFOUR SANS

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EXPERIENCE

Software Engineering Intern

Google

Summer 2019 Sunnyvale, CA

- Designed and implemented advanced cryptographic protocols that, used in conjunction with hardware enclaves, provide strong guarantees of user privacy.

Software Engineering Intern

Google

Summer 2018 Pittsburgh, PA

- Designed and built a solution for subgraph caching in [Tensorflow Serving](#) using C++ and Python for the Machine Learning Infrastructure Reliability team.

Research Intern

École Normale Supérieure Crypto Team

September 2017 - April 2018 Paris, France

- Conducted published research on Functional Encryption under the supervision of [David Pointcheval](#).

PUBLICATIONS

Theo Ryffel, **Edouard Dufour Sans**, Romain Gay, Francis Bach, and David Pointcheval. "Partially Encrypted Machine Learning using Functional Encryption." In *Advances in Neural Information Processing Systems*. 2019.

Chotard, Jérémy, **Edouard Dufour Sans**, Romain Gay, Duong Hieu Phan, and David Pointcheval. "Decentralized multi-client functional encryption for inner product." In *International Conference on the Theory and Application of Cryptology and Information Security*, pp. 703-732. Springer, Cham, 2018.

TEACHING

Teaching Assistant for 15-440/15-640 Distributed Systems

Carnegie Mellon University

Spring 2019 Pittsburgh, PA

Led a recitation, designed homework and exam questions, and helped students with course material and C/Java projects.

EDUCATION

MS in Computer Science

Carnegie Mellon University

Sept 2018 - Dec 2019 Pittsburgh, PA

Selected Coursework: Cryptography, Distributed Systems, Machine Learning, Blockchain, and Networks.

CQPA: 3.95/4.0

Diplôme d'Ingénieur Polytechnicien

École polytechnique

2014 - 2017 Palaiseau, France

Mathematics and Computer Science program.

GPA: 3.77/4.0

COMPUTER SKILLS

C C++ Go Python Java

TensorFlow scikit-learn

LANGUAGES

French Native speaker.

English Fluent.