Jérémi Do Dinh

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EDUCATION

 EPFL - MSc in Computer Science - Thesis: "Simulation Security in the Random Oracle Model" – PDF - Supervised by Alessandro Chiesa and Giacomo Fenzi. 	September 2021 - August 2024 (GPA: 5.25/6.0)
 McGill University - BSc in Mathematics & Computer Science Minor in Musical Science & Technology. Exchange semester at UBC Vancouver (January-April 2020). 	September 2017 - April 2021 (GPA: 3.87/4.0)
Experience	
 Software Engineering Intern at SonarSource Contributed to the development and maintenance of new and existing operating within a Scrum framework. Gained experience in test-driven development methodologies, ensuring ables. 	September 2023 - February 2024 ng features for Python analysis, ng high-quality software deliver-
Software Developer at RailVision AnalyticsSeptember 2020 - June 2021- Close work with core server architecture and APIs used in the data processing pipeline Key role in the migration to AWS.	
 Teaching, tutoring and mentoring Regular appointments as a teaching assistant at McGill and EPFL. Certified kitesurfing instructor (IKO), with experience teaching in Sicilar 	September 2019 - June 2023 ly.
 Summer internship at CN Rail Contributed to the winning team of the I&T Business Case competent technology-based business solution for CN. Received C\$1200 scholarship 	May 2019 - August 2019 tition, targeted at developing a ip as part of the winnings.

RESEARCH PROJECTS AND PUBLICATIONS

Tight inapproximability of well-supported Nash equilibria in public goods games	2023
– with Alexandros Hollender – ipl.2024.106486 🔗 arXiv:2402.14198 🔀	
Obtained handness regults for computing approximate equilibrium points in public goods games	aima:f

Obtained hardness results for computing approximate equilibrium points in public goods games, significantly improving the previous upper bound. Completed at THL5, EPFL.

Integer Programming with Complete Constraint Matrices Report

– Master's Semester Project Supervised by Alexandra Lassota, DISOPT, EPFL.

ACADEMIC PROJECTS

BobbyChain: Smart Contracts using PoW and pBFT Report 🔀 - Presentation 🕨

- Implemented an array of functionalities of " $Peerster", {\it a gossip-based peer-to-peer application.}$
- Built smart contracts on top of a generic consensus interface, along with two consensus algorithms, which can be used interchangeably: Proof-of-Work and practical Byzantine Fault Tolerance.

Broadcast Algorithms Course 🏛

- Implemented in Java the necessary building blocks for a functioning distributed system including *Perfect Links*, *FIFO Broadcast* and *Localized Causal Broadcast*.
- Completed as part of the *Distributed Algorithms* course at EPFL.

Skills and Interests

Technologies Rust, C/C++, Java, Python, Go, Git, LATEX, Bash.
 Languages Interests Fluent: English, French and Polish. Learning: German and Italian.
 Theory of Computation, Software Development, Probabilistic Proof Systems, Zero-Knowledge, Music, Kitesurfing, Skiing.

2022

2021

2022