JELLE VOS

Delft University of Technology

@ mail@jelle-vos.nl   ⚲ Delft, Zuid-Holland - Netherlands   ⬡ https://github.com/jellevos

EXPERIENCE

PhD Student
Delft University of Technology

📅 Jul 2021 – Now   ⚲ Delft, Netherlands

- Doing research in homomorphic encryption-based multi-party computation, optimizing arithmetic circuits
- Teaching about fully-homomorphic encryption

Teaching Assistant
Delft University of Technology

📅 Aug 2020 – Jan 2021   ⚲ Delft, Netherlands

- Coordinating the physical shared study labs for MSc students during the pandemic
- Helping students with questions about cryptography, machine learning and statistics
- Answering questions and checking students' work for Security & Cryptography

Software Development Intern
ING Group

📅 Apr 2018 – Jul 2018   ⚲ Amsterdam, Netherlands

- Working Agile in a team of four students
- Building a real-time collaborative work environment for Customer Journey Experts using Polymer
- Users were enthusiastic and ING has continued developing the application

HIGHLIGHTED RESEARCH

Efficient Circuits for Permuting and Mapping Packed Values Across Leveled Homomorphic Ciphertexts

Conference paper, published at ESORICS 2022

Compare Before You Buy: Privacy-Preserving Selection of Threat Intelligence Providers

Workshop paper, published at IEEE WIFS 2021

Multi-Party Private Set Intersection Protocols for Practical Applications

Conference paper, published at SECRYPT 2021

Practical Multi-party Private Set Intersection Protocols

Journal paper, published at IEEE T-IFS 2021

PROGRAMMING LANGUAGES

Rust   Python   C/C++

EDUCATION

MSc Computer Science: Cyber Security
Delft University of Technology

📅 Sep 2019 – Jun 2021

BSc Computer Science & Engineering
Delft University of Technology

📅 Sep 2015 – Jan 2019

Bilingual VWO - Gymnasium
Grotius College Delft

📅 Aug 2009 – Jul 2015

EXTRACURRICULAR

Board Member & Volunteer
DWH & Outsite

📅 Feb 2016 – Present

- Committee work, promoting DWH & Outsite, Delft's LGBT+ associations
- Chaired Outsite, LGBT+ youth association
- Board member at DWH

Software Developer
LOBSTER

📅 May 2018 – Nov 2020

- Building a low-cost autonomous deep sea exploration robot
- Working in a multidisciplinary team
- Developing control & navigation software in Python

INTERESTS

Privacy-Enhancing Technologies

In a world growing more digital by the day, we are giving up privacy without knowing the consequences. I want to research protocols that allow the same digital comfort without giving up privacy, such as private set intersections.

Mathematics & Fundamental Computer Science

In my studies I found that I liked the theoretical side of computer science as much as I liked the practical side. I want to broaden my mathematical knowledge to better understand the fundamental problems. Topics include number theory & discrete optimization.