

Abel Stuker

Master's student Computer Science: Software Systems

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Master's student in Computer Science: Software Systems at Vrije Universiteit Brussel, focused on software systems and security. I like building and testing software, analysing protocols and developing testing frameworks. Currently also a research intern at COSIC (KU Leuven), analysing the security of the CCC Digital Key standard, and Vice President of Informatica Groep, the VUB computer science student association, where I'm responsible for the server infrastructure.

EDUCATION

Master of Computer Science: Software Systems
Vrije Universiteit Brussel
2025 – 2027

ACM Europe Summer School on Distributed and Replicated Environments
Politecnico di Milano
Aug – Sep 2026

Bachelor of Computer Science
Vrije Universiteit Brussel
2022 – 2025

SKILLS

Programming languages
Java · Kotlin · Swift · JavaScript · TypeScript · Python · C · Rust · WebAssembly · Scala · Haskell

Infrastructure
Docker · Kubernetes · Helm · Traefik · Linux · Git

Development
Web · Android · iOS · Embedded systems · Testing frameworks · Apache Spark · Apache Flink

Security tooling
Ghidra · JADX · Burp Suite · Wireshark

Research
Framework development · Taint analysis · Program instrumentation · Protocol security · Decentralised infrastructure · Distributed systems

Spoken languages
Dutch (native) · English (professional) · French (limited)

EXPERIENCE

COSIC, KU Leuven

Security research intern — Jul 2026 – present

- Analysing the security of the Car Connectivity Consortium (CCC) Digital Key, the open standard that lets smartphones act as car keys.
- Building a testing framework (NFC, Bluetooth Low Energy, Ultra-Wideband) to scan certified CCC products for vulnerabilities.

Informatica Groep

Board member — Sep 2023 – present

- Serving as Head of Server & Cyber, responsible for the association's entire server infrastructure, from the Kubernetes cluster and application deployments to back-ups and security.
- Organising two editions of the Infogroep CTF with hundreds of Belgian students participating.
- Organising cybersecurity seminars for VUB Bachelor students.
- Developing and maintaining R&D projects: the agenda system, the shop's point-of-sale system and payments, information screens, the website, etc.

Vice President — Apr 2026 – present

- Transforming Infogroep from a de facto association into a registered non-profit organisation (VZW).
- Collaborating with VUB to bring the association in line with the EU NIS2 regulations.

Treasurer — Apr 2024 – Apr 2026

Software Languages Lab, Vrije Universiteit Brussel

Research intern — Oct 2025 – May 2026

- Publishing and presenting JASMaint (ACM SIGPLAN MPLR 2025), a taint analysis for web applications using JavaScript and WebAssembly, with the goal of uncovering malicious data flows within applications.
- Contributing to WARDuino, a WebAssembly runtime for embedded systems, and the Wastrumentation instrumentation platform.

Vrije Universiteit Brussel

Deputy teacher — Sep 2024 – present

- Teaching mathematics and programming-language concepts to Bachelor students.

Student Representative — Sep 2023 – present

- Representing Computer Science students in the Study Programme Committee, which oversees the programme and its courses.