

# Simon Bos

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📞 On request

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29/06/1995



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## Education

- 2018-2019 **Master of Artificial Intelligence**, *KU Leuven*, Leuven, *Summa Cum Laude*  
Specialization in Big Data Analytics  
Thesis at research group COSIC: ‘Secure Machine Learning for Privacy Preserving Genetic Disease Identification’.
- 2016-2018 **Master of Engineering: Computer Science**, *KU Leuven*, Leuven, *Cum Laude*  
Specialization in Distributed Systems  
Thesis at research group DistriNet: ‘Patch it like it’s hot: Exploring online patching practices’.
- 2013-2016 **Bachelor of Engineering**, *KU Leuven*, Leuven, *Cum Laude*  
Major in Computer Science, Minor in Electrical Engineering

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## Experience

### Professional

- 2022-present **Software Engineer**, *nexuzhealth*, Leuven  
Software engineer at nexuzhealth, focusing on the architecture and programming of microservices for messaging systems, document storage and templating engines. Main technologies: Go, Java, Angular, gRPC, Google Cloud, Spanner.
- 2021-2022 **PhD Candidate Electrical Engineering**, *WaveCore @ KU Leuven*, Leuven  
PhD Candidate Electrical Engineering at research group Networked Systems (WaveCore) at ESAT, KU Leuven. Investigating the application of machine learning for optimizing state-of-the-art wireless communication algorithms. Supervised by Prof. dr. ir. Sofie Pollin.
- 2019-2020 **Solution Architect / Data Engineer**, *Telenet*, Mechelen  
Member of the *Data Architecture and Governance* and *Data Platform* teams; mainly working on projects related to cloud migration of data engineering and data science applications. Main technologies: Scala, Apache Spark, Apache Hadoop, AWS.
- 2017 **Summer Internship**, *Secure Code Warrior*, Bruges  
As part of my master in Computer Science at the KU Leuven, I gained experience as a summer intern at Secure Code Warrior: an exciting, international AppSec start-up. I researched security vulnerabilities and best practices in Flask (a microframework for Python).

### Voluntary

- 2017-2018 **President**, *Lerkeveld Praesidium*, Leuven  
As president of the student association Lerkeveld, my responsibility was the total functioning of the organization. I managed a group of 7 teams, each consisting of 4-10 people who were in charge of organizing events for 150 members and 100 honorary members.
- 2015-2019 **IT Representative**, *Lerkeveld Praesidium*, Leuven  
IT member from 2015-2018, IT group coordinator from 2018-2019. As member of the team IT of the student association Lerkeveld, my main responsibilities were:
- Assisting our student residence with the IT infrastructure.
  - Developing and maintaining a website, using Python (Flask) and React.
- Our open source projects are visible on <https://github.com/lerkeveld>.

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## Honors and awards

- 2019 **Third place**, *Flemish Programming Contest*  
Third place in category for master's students, doctoral students, graduates and professionals.
- 2018 **Finalist**, *HashCode 2018*, Google  
Invited to the Google Dublin office to participate in the finals.
- 2017 **Winner**, *Cyber Security Challenge Belgium*, NVISO  
Winner of the 2017 Finals
- 2015-2017 **Finalist**, *Cyber Security Challenge Belgium*, NVISO  
Thrice finalist, winner of the 2016 Qualifying Round
- 2014 **Runner-up**, *Alumni Engineers Price*, KU Leuven  
The Alumni Engineers Price is a prize for a design task for teams of bachelor students of the Engineering Science faculty. My team developed a computer vision application for detecting and registering people passing by.

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## Technical skills

### Programming languages

- Go **Expert**, significant professional and web development experience
- Python **Expert**, significant professional, problem-solving and web development experience
- Java **Expert**, significant professional experience
- Scala **Experienced**, good professional experience
- Other JavaScript, C++, C, R, MATLAB, Node.js, Haskell, Prolog, ECLiPSe

### Relevant skills

- DevOps UNIX/Linux system administration, Hadoop ecosystem, git, Docker, Kubernetes, CI/CD (Jenkins, GitLab CI/CD), vim, IntelliJ IDEs, Visual Studio Code
- Frontend Pure HTML, CSS and JavaScript; Angular; React; MUI (Material-UI)
- AWS ± 3 year of professional and pet-project experience
- Google Cloud ± 2 year of professional experience
- Security Passionate about software security, capture-the-flag player
- Competitive programming Competed in online, local and country-wide contests such as Google Code Jam, Google Hash Code and the Flemish Programming Contest
- Challenges Enthusiastic about challenges such as Project Euler (mathematical), Cryptopals Crypto Challenges (cryptography), Belgian Defence Year-End Puzzle (cryptography / varia)

### Courses

- 2017 SANS SEC560: Network Penetration Testing and Ethical Hacking
- 2017 Defensive Security: Open Source Defensive Security

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## Language Proficiency

- Dutch** Native proficiency
- English** Professional working proficiency
- French** Limited working proficiency
- Bulgarian** Basic

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## General Interests

- Sports All kinds of sports: (beach) volleyball, running, ping pong
- Cooking Trying out different kinds of food
- Movies Mostly science fiction
- Games Fan of typical old school strategy games such as Age of Empires II
- Favorite OS Arch Linux with KDE Plasma