

# Sam van Kampen

CURRICULUM VITAE

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## Education

### Vrije Universiteit/Universiteit van Amsterdam

Amsterdam, Netherlands

MASTER OF SCIENCE IN COMPUTER SCIENCE

September 2020 - January 2025

- Track: Computer Systems Security
- Thesis: Abstract Rewriting Formalized in Lean (grade: 9.0)
- GPA: 9.0/10

### Universiteit van Amsterdam

Amsterdam, Netherlands

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

September 2017 - July 2020

- Thesis: Predictable, guarantee-backed dynamic priority scheduling in the  $\mu\text{C}/\text{OS-III}$  real-time operating system (grade: 8.0)
- GPA: 8.68/10

## Experience

### Universiteit van Amsterdam

Amsterdam, Netherlands

EMPLOYEE LAPTOP HELPDESK AND BRING YOUR OWN DEVICE-PROGRAMME

July 2018 - January 2025

- Organised the *Bring Your Own Device* day, installing and troubleshooting Linux on hundreds of laptops each year.
- Worked at the laptop helpdesk, troubleshooting hardware and software on student laptops throughout the year.
- Helped maintain software used in the Computer Science bachelor, specifically SIM-PL.

### Universiteit van Amsterdam

Amsterdam, Netherlands

SERVER ADMINISTRATOR, *Webtechnologie voor KI/INF*

December 2022 - January 2025

- Responsible for provisioning and maintaining student VMs.
- Server provisioning using Terraform and Ansible.
- Wrote a custom authentication system allowing students to get SSH access using the university's single sign-on system.

### Vrije Universiteit

Amsterdam, Netherlands

TEACHING ASSISTANT, *Logical Verification*

2022-2023 and 2024-2025

Responsible for teaching practical sessions and grading homework.

### Universiteit van Amsterdam

Amsterdam, Netherlands

TEACHING ASSISTANT, *Classical Cryptography*

February - March 2021

Responsible for teaching practical sessions, putting together exercises and grading homework.

## Personal projects

### Ours

<https://github.com/svkampen/ours/>

A NETWORKED, COLLABORATIVE NCURSES-BASED MINESWEEPER CLONE

- Technologies: modern C++, Boost::Asio, protobufs, ncurses.

### Lights Out

<https://segfault.party/lightsout/>

A MINIMAL HOME ASSISTANT FRONTEND FOR CLASSIC MAC OS

- Technologies: Macintosh Toolbox, Open Transport, ANSI C
- Written using CodeWarrior 9 on System 7.5

### Spinsel

<https://github.com/svkampen/spinsel/>

STATIC SITE GENERATOR POWERING SEGFAULT.PARTY

- Technologies: Haskell, Megaparsec, Jinja2, Markdown

## Skills

### Programming languages

Proficient in Python, Rust, C and C++, as well as Lean 4 for software verification  
Familiar with Haskell and various assembly languages (x86-64, ARM, Z80, 6502)

### Server administration

Using Terraform, Ansible, Nix and NixOS