

# CV of Maximilian Gallup

## Achievements & Notable Minor Courses

### 2023

- Bachelor Thesis Project - *Implementing BLADE<sup>1</sup> as a security pass in LLVM*
- 10<sup>th</sup> place at NXP Cup International Finals (Bucharest)
- 1<sup>st</sup> place at NXP Cup Dutch Qualifiers (Eindhoven)
- Project Autonomous Driving (XB\_0045 <sup>2</sup>) Grade: 8.5 - Building and programming an autonomous vehicle to compete in the NXP Cup 2023
- Compiler Construction (XB\_0003 <sup>2</sup>) Grade: 9.0 - Completed frontend for FenneC language and implemented basic optimization passes in LLVM
- Machine Learning (X\_400154 <sup>2</sup>) Grade: 8.0 - Final project paper *CONVIDENNS: DDoS Detection Using Convolutional Neural Networks*

### 2022

- Advanced Network Programming (XB\_0048 <sup>2</sup>) Grade: 8.0 - Implemented part of a User-space Networking Stack (RFC 793)
- Secure Programming (XB\_40005 <sup>2</sup>) Grade: 8.5 - Simple Chat and Server program with focus on security using openssl for Secure Programming

### 2019

- Internship at Alphalink Engineering GmbH, Dr. Cracau, Dr. Köthe
- John Phillips Sousa Band Award
- Active Member of National Honor Society (NHS)

### 2018

- Trumpet Section Leader, High School Symphonic Band
- Member of Berlin Model United Nations Press Team (Video)
- Cambridge English Proficiency Certificate CPE (Grade C2)
- Chief Organizer of Annual Intercultural NHS Benefit Concert
- Head of Student Advocates Initiative

## Education

- 2023-Present BSc Computer Science Vrije Universiteit Amsterdam
- 2020-2023 BSc Computer Science Vrije Universiteit Amsterdam
- 2019 John F. Kennedy School Berlin American High School Diploma

## Software Experience

From working on side projects I have gained experience with setting up Linux machines and running various services and tools to suite my personal needs. Additionally, I like to explore the Rust programming language with which I've made a personal website and a game playable on the web. The following is a list of tools and services with which I have experience with regards to personal projects.

- Services: Nginx, Nextcloud, Gitea, Containerize Personal Website, FileBrowser
- Networking: Nginx Proxy Manager, WireGuard, Tailscale
- Maintainability: Docker, Ansible, Bash Scripting

<sup>1</sup> Vassena, et al: <https://gleissen.github.io/papers/BLADE.pdf>

<sup>2</sup> Source code or paper can be made available upon request

## Languages

- Native: English, German, Czech
- Beginner: Dutch (A2)

## Personal Interests

- Animal Rights Activism, Digital Privacy, Right to Repair Movement, Open Source
- Renewable Energies and Sustainability
- Operating Systems, Memory Safety in Rust, Network engineering, Free and Open Source Movement, Data Decentralization, Neuromorphic Computing, Machine Learning, RISC-V
- blog: [basingse.org](https://basingse.org)
- Aviation and Robotics
- Jazz & Funk Music, Trumpet and Bass
- Ultimate Frisbee and Lacrosse

## Contact

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