MARIUS FLEISCHER

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EDUCATION

Doctor of Philosopy – Computer Science   **09/2021 - Present**
University of California, Santa Barbara   Santa Barbara, US

- Current GPA: 4.0
- Advisors: Giovanni Vigna, Christopher Kruegel
- Graduate Teaching Assistant: Computer Security
- Relevant coursework: Runtime Systems, Software Fuzz Testing, Machine Learning, Advanced Topics in Distributed Systems, Special Topics in Deep Learning, Quantitive Information Flow, Machine Learning on Graphs

Bachelor of Science – Computer Science   **10/2017 - 08/2021**
Friedrich Alexander-University Erlangen-Nuremberg   Erlangen, Germany

- Graduated with distinction
- Undergraduate Teaching Assistant: Systems Programming, Fundamentals of Computer Engineering
- Related coursework: Data Structures and Algorithms, Systems Programming, Software Reverse Engineering, Computer Forensics, Applied Hacking, Parallel and Functional Programming, Computer Architecture

Study Abroad   **07/2019 - 01/2020**
Queensland University of Technology   Brisbane, Australia

- Grades: high distinction

RESEARCH EXPERIENCE

Graduate Student Researcher   **10/2021 - Current**
University of California, Santa Barbara   Santa Barbara, US

- Advanced Linux kernel fuzzing based on syzkaller
- Fake news detection using graph machine learning

Undergraduate Research Assistant   **10/2020 - 08/2021**
Friedrich Alexander-University Erlangen-Nuremberg   Erlangen, Germany

- Prepared 24h fuzzing of trusted execution environment kernel drivers with syzkaller for performance evaluations
- Set up portable configuration of syzkaller
- Improved Android fuzzing infrastructure
- Developed tooling for library dependency extraction as part of a fuzzing project

ACADEMIC TEACHING EXPERIENCE

Undergraduate Teaching Assistan   **05/2020 - 09/2020**
Friedrich Alexander-University Erlangen-Nuremberg   Erlangen, Germany
Course: Systems Programming

- Weekly online class with 5 to 25 students for one semester
- Answered questions about theoretical aspects
- Helped students with programming assignments
- Graded classwork

Undergraduate Teaching Assistant   **09/2018 - 07/2019**
Friedrich Alexander-University Erlangen-Nuremberg   Erlangen, Germany
Course: Fundamentals of Computer Engineering

- Two weekly in-person classes with 8 to 20 students for two semesters
- Revised lecture content and discussed exercises together with the students
- Graded classwork

Honors and Awards

Support program for gifted and talented students	2018 - 2021
Friedrich Alexander-University Erlangen-Nuremberg	Erlangen, Germany

Conferences

Super Computing (SC20)	November 2020
Member of the team deFAUlt in the Virtual Student Cluster Competition (VSCC)	

Activities

Decompetition service author	2022
FAUST CTF service author	2021, 2022
Roethelheimpark parkrun founder and run director	2020 - 2021

Skills

- **Programming:** C, Go, Python, Java, C++, C#, Assembly, Bash, SQL, Scala, R
- **Technologies:** Docker, QEmu, Unicorn, PyTorch, Twitter API, Git, Ghidra, GDB/GEF
- **OS:** Linux, Windows
- **Languages:** German (native), English (fluent, TOEFL iBT: 117/120), Hindi (elementary)