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# Marius Fleischner

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[Github](#) [LinkedIn](#)

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## EDUCATION

### Doctor of Philosophy – Computer Science

*University of California, Santa Barbara*

Current GPA: 4.0

Selected Coursework:

- Runtime Systems – Introspection of modern programming languages
- Software Fuzzing for Correctness and Security – Overview of techniques and state-of-the-art
- Machine Learning on Graphs – Practical and theoretical introduction into the topic of graph machine learning

**09/2021 - Current**

Santa Barbara, US

### Bachelor of Science – Computer Science

*Friedrich Alexander-University Erlangen-Nuremberg*

Graduated with distinction

Selected Coursework:

- Software Reverse Engineering – Offensive and defensive aspects of software reverse engineering
- Forensic Computing – Practical and theoretical introduction into forensic computing
- Hacking Lab – Practical course on offensive cyber security
- Systems Programming – Fundamentals of operating systems
- High Performance Computing – HPC Cluster setup and benchmarking of scientific applications

**10/2017 - 08/2021**

Erlangen, Germany

Additional experiences:

- Student club FAUST – Preparing for and participating in international Capture the Flag security competitions

### Study Abroad

*Queensland University of Technology*

Grades: high distinction

Coursework:

- Mobile Application Development – Development of individual cross-platform mobile apps
- Information Security – Insights into management perspective on cyber security
- Animation Aesthetics – Practical course on realistic looking animations

Additional experiences:

- Student club QUT Whitehats – Insights from cyber security professionals
- 2 months of traveling along Australian east coast – Learn about and experience Australian culture

**07/2019 - 01/2020**

Brisbane, Australia

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## RESEARCH EXPERIENCE

### Graduate Student Researcher

*University of California, Santa Barbara*

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

**10/2021 - Current**

Santa Barbara, US

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

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

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**ACADEMIC TEACHING EXPERIENCE**

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**Undergraduate Teaching Assistant***Friedrich Alexander-University Erlangen-Nuremberg***05/2020 - 09/2020**

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***Friedrich Alexander-University Erlangen-Nuremberg***09/2018 - 07/2019**

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

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**HONORS AND AWARDS**

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Support program for gifted and talented students

*Friedrich Alexander-University Erlangen-Nuremberg*

2018 - 2021

Erlangen, Germany

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**CONFERENCES**

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Super Computing (SC20)

November 2020

Member of the team deFAULt in the Virtual Student Cluster Competition (VSCC)

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**ACTIVITIES**

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FAUST CTF service author

2021, 2022

Roethelheimpark parkrun founder and run director

2020 - 2021

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**LANGUAGE SKILLS**

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- German: native language
- English: fluent (TOEFL iBT: 117/120)