

# Stefan Butz

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github.com/sbutz 

Computer science student with excellent grades and 4+ years of experience in software development and IT-security eager to complete your projects.

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## Experience

APRIL 2022 – PRESENT

**Systems Programmer**/genua GmbH, Kirchheim bei München

Advancing the internal OpenBSD fork (kernel and userland) which builds the basis for an highspeed packet filter and VPN Appliance (C, Shell)

Intensive testing using modern cloud infrastructure (Openstack, Docker, Ruby)

Peer code reviews

Reproducing and fixing complex bugs

SEPTEMBER 2017 – APRIL 2022

**Software Developer (dual course of study)**/genua GmbH, Kirchheim bei München

Key tasks:

- Implementing user stories with focus on security and performance
- Code reviews, documentation, tests
- Reproduce and fix bugs and performance issues

Areas:

- Full stack development (Ruby-on-Rails, JavaScript)
- Systems Programming on Unix, mainly networking services and security relays (C, Perl, Shell)
- Virtualization based on a L4 Microkernel, Linux, QEMU (C/C++, Python, Shell)

MAY 2019 – SEPTEMBER 2019

**Freelance Software Developer**/Energie Allianz Bayern GmbH, Hallbergmoos

Developing an Android App to log maintenance work at windmills (process digitalization)

APRIL 2019 – FEBRUARY 2022

**Multiple Side Jobs to finance my Studies**

Tutor and Student Assistant for Web Development and Linear Algebra

Traffic Monitor

Tutoring for secondary and high school in STEM modules

Assistant in Beverage Sales

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## Education

OCTOBER 2022 – OCTOBER 2024

**Software Engineering Elite Graduate Program**/University of Augsburg & Technical University Munich & Ludwig Maximilian University of Munich

Looking forward to

OCTOBER 2018 – MAY 2022

**Bachelor of Science Computer Science (with Honors)**/Ostbayerische Technische Hochschule, Regensburg

Final Grade: 1,2

Bachelor thesis: Designing and implementing a tool to extract trace records from the fiasco microkernel

- FPGA-based PCIe Screamer to access the target machine's memory using DMA
- Extract trace records at rate up to 100MB/s
- Prepare trace records for further analysis

Study projects:

- Stock trading platform using Spring Boot (Java)
- Basic i386 kernel (C, self-study for operating system course)
- Analyzing wine quality using data mining methods (Python, sklearn)
- Book Library (JavaScript, node.js)

SEPTEMBER 2017 – DECEMBER 2020

**Mathematical technical software engineer**/genua GmbH, Kirchheim bei München

Average grade: 2.0

Pure self-study (no school)

SEPTEMBER 2009 – JUNE 2017

**A-levels**/Gabelsberger-Gymnasium, Mainburg

Average grade: 1.3

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## Languages

GERMAN – MOTHER TONGUE

ENGLISH – FLUENT (C1)

FRENCH – BASICS (B1)

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## Scholarships

OCTOBER 2020 – SEPTEMBER 2021

**Deutschlandstipendium of the OTH Regensburg for academic excellence**

OCTOBER 2019 – SEPTEMBER 2020

**Deutschlandstipendium of the OTH Regensburg for academic excellence**

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## Social Impact

FEBRUARY 2013 – JULY 2019

**Youth Speaker**/Billardclub 73, Pffeffenhausen

Elected Representant of youth players

Performing trial courses during holidays

JANURARY 2022 - PRESENT

**Project Leader IT**/Billardclub 73, Pffeffenhausen

Modernizing the IT-Infrastructure in the clubhouse

Planning and Installation of livestream system

Developing a score tracking system for the pool billiard sport (React, Java)

Involved in planning the 50 years anniversary of the club

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## Interests

Pool billiard (County League) • Volleyball • CrossFit • Skiing • Hiking