

# NIKLAS EICKER

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## EXPERIENCE

6/2019 – 8/2019	<b>Programming Bootcamp - Javascript fullstack</b>	Ironhack
	Learning Javascript fullstack, HTML, CSS and React in a 9 weeks long fulltime bootcamp. Three weeks front-end followed by three weeks NodeJS + MongoDB and three weeks React.	
	Javascript / HTML / CSS / NodeJS / MongoDB / React / Git	
3/2019 – 6/2019	<b>Research Assistant</b>	RWTH Aachen - Institute of Physics IA
	Doing research in the field of infrared nanoscopy. Using a Scattering-type Scanning Near-field Optical Microscope (s-SNOM) with infrared lasers.	
	LaTeX / Gwyddion	
4/2018 – 10/2018 part time	<b>Student Assistant - Java developer</b>	KSL Team GmbH
	Working on campus software for the University Bern that organizes everything from lectures, rooms to students and their grades. I added functionality concerning custom SQL queries, helped by testing features against the specifications and worked on project documentation.	
	Java / Hibernate / Wicket / MySQL / Subversion	
6/2017 – 8/2017 part time	<b>Student Assistant - C++ developer</b>	RWTH Aachen - Institute of Automatic Control (IRT)
	The IRT does research in the field of automatically driving cars. The used software includes a module written in c++ which is responsible for navigation without GPS. I implemented parts of the module using Monte Carlo localization, improved the code base and implemented calculation on multiple threads to allow for real-time analysis.	
	C++ / Git / Valgrind	
9/2016 – 2/2017	<b>Internship</b>	German University of Technology in Oman (GUtech) - Math and Science department
	Preparing math lectures and teaching tutorials for ~150 students of Mathematics, Engineering and Computer Science. Holding tutorials and office hours answering questions from students. Creating, correcting and grading homework sheets, in-class tests and exams.	
	Moodle / LaTeX	

## EDUCATION

10/2015 – 4/2019	<b>Physics - Master's Degree</b>	RWTH Aachen
	Experimental Condensed Matter Physics. Thesis: "Infrared nanoscopy to analyse the influence of defects in resistively switched In <sub>3</sub> SbTe <sub>2</sub> nanostructures". Conducting s-SNOM measurements on phase change nano wires.	
10/2017 – 4/2018	<b>Erasmus Semester</b>	Jagiellonian University
	I mainly took courses on Theoretical Physics and Mathematics. Additionally I attended a lecture on Data Science studying large data with Python (Pandas).	
10/2012 – 10/2015	<b>Physics - Bachelor's Degree</b>	RWTH Aachen
	Experimental Particle Physics. Thesis: "Background Estimation for a Supersymmetry Search with at Least One High Energetic Photon in the Final State". Analysing data with ROOT (c++) and Python.	

## LANGUAGES

**German** - native or bilingual  
**English** - native or bilingual

## HOBBIES

Programming, running, combative sport, piano, reading

## OPEN SOURCE

Some of my own projects are open source and I occasionally contribute to open source projects.