



# Clemens Cords

Software Engineer: Visual Computing (C++20 / Julia)

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## Work Experience & Education

mid 2021 to date	+	Wrote jluna, a julia-C++ Wrapper with Focus on bleeding edge Modernity and Elegance through Syntax (C++ / C / Julia)
late 2020 to mid 2021	+	Wrote crisp, a well-documented Image Processing Library implementing most Image Processing Needs including Spectral Techniques, Deep Learning, GPU-Side Computation, from Scratch (C++ / C / Lua / GLSL)
early 2020 to late 2021	+	Independent Study of Image Processing, Mathematical Morphology, Numerical Optimization, Deep Learning
2019	+	Internship at SeqAn3, developing automated Tests and Performance Benchmarks; 1 Semester part-time (C++)
2018	+	Statistics tutor at FU Berlin; 2 semesters part-time (R / Python)
2017	+	Internship at radiology practice, developing Image-Processing Plugin for local MRT / X-Ray Imaging Server; 2 months full-time (Swift / C++ / Python)
2015 to 2019	+	Studied Bioinformatics, FU Berlin
2013 to 2015	+	Studied Pure Math, TU Berlin

## Skills

Proficiency

### C++

5/5 [●●●●●]

5 years of experience, including 3 years full-time usage. strong foundation in performance-optimization, algorithm-design, parallell- and compile-time execution. Highly familiar with C++20 features such as context or ranges. Adept at and well-used to automated testing, logging.(C++23)

### Julia

4/5 [●●●●●]

1 years of full-time experience, high proficiency for general appliactions, performance optimization and meta-language-features, above average proficiency in non-concurrent or distributed applications(Julia 1.7.1)

### Lua

4/5 [●●●●●]

2 years of experience, high proficiency in procedural/functional programming paradigms as well as C-interfacing object-oriented approaches (Lua 5.4)

### GLSL, R

4/5 [●●●●●]

### Python, Swift

3/5 [●●●●●]

For a more detailed overview of my skills, expertise and past work, please consider visiting the portfolio on my my website.