

# Ondřej Kubánek

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## Education

2023-now **Master**, *Chalmers University of Technology*, Computer science – algorithms, languages and logic  
2020–2023 **Bachelor**, *Charles University*, Prague, Theoretical Computer Science  
with honors

Relevant Courses Formal Mathematics and Proof Assistants, Graph Algorithms,  
Advanced C++, Haskell, Compiler Optimizations, Intro to Category theory, Domain theory  
Grades Weighted grade average: 1.15, (3.85 GPA)

### Bachelor thesis

title **Improving GCC loop optimisation with histogram profiling**, *Grade A*  
description Adding new histogram counter to Gcov and improving loop optimisations  
e.g. peeling and vectorization by having more precise information about loop iterations  
supervisors doc. Mgr. Jan Hubička, Ph.D.  
result SPEC CPU 2017 integer benchmarks improved by 1% (yearly rate of progress 2.5%)

## Experience

2023-now **Summer of Nix**  
Packaging NGL software in the Algae mob  
2022 **Google Summer of Code**  
Implemented an algorithm for sorting relevant Haskell packages  
to help users pick the correct package and integrated the algorithm into Hackage  
Organisation Haskell.org  
Project Hackage (Haskell package archive)  
**Link**

## Coding examples

Haskell Haskell course  
C++ G-machine

## Programming Languages

Solid Haskell, C, C++  
Intermediate C#, Python, Lean, Agda, Nix  
Basics SQL, Prolog

## Technologies

Docker, systemd, Bash, NixOS, L<sup>A</sup>T<sub>E</sub>X, git

## Languages

English C1 - CAE