

# Ondřej Kubánek

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## Education

2020–now **Bachelor**, *Charles University*, Prague, Computer Science - planned end 2023  
Relevant Courses Formal Mathematics and Proof Assistants, Operating systems, Graph Algorithms, Advanced C++, Haskell, Compiler Optimizations, Intro to Category theory  
Grades Weighted grade average: 1.15, (3.85 GPA)  
**Bachelor thesis**  
title **Improving GCC loop optimisation with histogram profiling**, *In progress*  
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.

## Experience

2022 **Google Summer of Code**  
Implemented an advanced 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)  
Presented results in an open section at Haskell Symposium 2022 (co-located with ICFP 2022)  
**Link**  
2019 **Internship**, *The Slavíček Group*, Prague  
Summer internship in computational chemistry, photosensitivity of porphyrines

## Coding examples

Haskell Haskell course  
C++ Static ranges

## Programming Languages

Solid Haskell, C, C++  
Intermediate C#, Python, Agda  
Basics SQL, Nix, Lean 3, Prolog

## Technologies

Docker, systemd, Bash, NixOS,  $\LaTeX$ , git

## Languages

English C1 - CAE  
Spanish A2