# Bc. Jan Kleprlík

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## ABOUT ME

I am in my last year of a master's degree in software systems at Charles University, Prague. My main interests are programming languages and their development, emphasising compilation and runtime optimizations via static analysis techniques. I have repeatedly demonstrated my ability to learn new technologies in multiple hackathons where I either won or placed at the top positions, both as a team member and an individual.

## EDUCATION

**Charles University – Faculty of Mathematics and Physics**                2018 – Present
*Bachelor's and Master's in Computer Science – Software Systems*

## EXPERIENCE

**Manta, an IBM company - Software Developer**                Sept. 2022 – Present
- As a part of my Master's thesis, I develop and gradually own a complete unit of data lineage platform — C# scanner. In the process I implemented various algorithms related to static analysis — Rapid Type Analysis, Alias Analysis, CIL interpreter etc.
- Extending features and robustness of static analysis of Python source code.

**JetBrains - AppCode Intern**                Jul. 2022 – Mar. 2023
- Contribution to many language support features for the Swift programming language in the AppCode IDE. I developed multiple intentions and quick actions, such as moving methods to an extension, which were released and deployed.

**JetBrains - Student Ambassador**                Nov. 2022 – Present
- JetBrains representative on the campus, organizing various social events across multiple European universities. I both organised and posed as a technical speaker at various talks.

**NetGlade - C# Backend Developer**                Nov. 2021 – Jul. 2022
- Developing and further expanding school management software actively used by hundreds of schools across the Czech Republic.

**Instructor at Charles University**                Aug. 2021 – Feb. 2022
- Instructor of algorithms and programming in Python.

## PROJECTS

**Cilostazol**                https://github.com/Softwarovy-projekt/Cilostazol
- CIL interpreter with the performance features and support of *GraalVM*. The interpreter is written using the *Truffle* framework using compiler hinting and other optimizations.

**Yöti**                https://github.com/JanKleprlik/Yoti
- Multiplatform music recognition application implemented with emphasis on unified logical and visual representation using multiplatfrom framework *UnoPlatform* including the recognition algorithm itself.

**Vimal**                https://github.com/JanKleprlik/Vimal
- Text editor with simple Swift and Kotlin syntax highlighting also able to execute Kotlin code.

**Audio Visualiser**                https://github.com/JanKleprlik/AudioVisualiser
- Real-time audio visualiser implemented using the *SFML* library.

## SKILLS

C#, Java, Kotlin, C++, C, Python, interpreters, static analysis, compilers, programming language tool development, ANTLR, Bison, Azure, Jira, UWP, multiplatform development