

# Jakub Florek

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## About

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Second year Honours BSc Computer Science and Engineering student at the Delft University of Technology.

Actively contributes to the Swift Programming Language's swift-syntax repository, particularly to the SwiftLexicalLookup library, which initially developed during Google Summer of Code 2024.

Three time Swift Student Challenge winner. Attended WWDC 2024 in Cupertino. Built local public transport application and enterprise kitchen floor plan editor. Avid guitar player with a passion for hiking and photography.

## Education

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### Delft University of Technology

Sept 2023 – June 2026

BSc in Computer Science and Engineering

- **First year GPA:** 8.67/10 ([Grade transcript](#) 📄)
- **Coursework:** Software Engineering Methods, Algorithms and Data Structures, Operating Systems

## Experience

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### Google Summer of Code Contributor

June 2024 – Aug 2024

Swift Programming Language

- Collaborated closely with Doug Gregor from the Apple Swift Compiler Team.
- Designed and implemented a new name lookup API for Swift, balancing technical requirements with feedback from the mentor and community. It enables efficient syntax tree traversal and accurate name introduction.
- Delivered improved flexibility, maintainability, and extensive testing infrastructure.
- Continues to work with the mentor on the new library, to thoroughly test it and pave its way towards full adoption in the Swift compiler and replacement of ASTScope.
- **Tools Used:** Swift, swift-syntax, C++, ASTScope

## Projects

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### Spatialize - winning Swift Student Challenge 2024 submission

[jakubflorek.com/spatial](https://jakubflorek.com/spatial) 📄

- Developed an app allowing users to mix songs in spatial audio with dynamic adjustment of virtual speakers.
- Included advanced features like multi-track playback and timeline-based audio editing.
- **Tools Used:** Swift, SwiftUI, PHASE, AVFoundation, SceneKit

### Welcome Sheet - native-like iOS onboarding screens

[jakubflorek.com/sheet](https://jakubflorek.com/sheet) 📄

- Created a Swift package that simplifies the implementation of native-like onboarding screens for iOS, iPadOS.
- Achieved over 200 stars on GitHub and received contributions from other developers.
- **Tools Used:** Swift, SwiftUI, UIKit

### TarBus - local public transport app

[jakubflorek.com/tarbus](https://jakubflorek.com/tarbus) 📄

- Co-created a popular local app in Tarnów, with bus schedules for a local provider. Over 5000 downloads.
- Integrated features like widgets, likely making it the first Polish public transport app to support iOS widgets.
- **Tools Used:** Swift, SwiftUI, WidgetKit

### JPK - Kitchen Test Drive floor plan editor

[jakubflorek.com/jpk](https://jakubflorek.com/jpk) 📄

- Developed an enterprise app for creating kitchen layouts, featuring drag-and-drop functionality.
- Streamlined workflow, reducing task time from 2 hours to 15 minutes with auto-save and PDF export.
- **Tools Used:** Swift, UIKit

## Technologies

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**Languages:** Swift, Java, C++, Python, TypeScript, C#, SQL

**Technologies:** Xcode, SwiftUI, UIKit, Interface Builder, AVFoundation, SvelteKit