

# Daniel Kovacs

Budapest, Hungary

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## Education

Budapest University of Technology and Economics

Master of Science in Software Engineering

Sep 2018 – Jun 2020 | Budapest, Hungary

GPA: 4.85/5.0

Activities: Functional Programming Group Leader, Open Source Contributor, Software Craftsmanship Meetup Organizer

Relevant Coursework: Advanced Programming Languages, Compiler Design, Type Systems, Lambda Calculus, Program Analysis, Formal Verification, Concurrent Programming

Bachelor's Degree: B.Sc. in Computer Science, Eötvös Loránd University, GPA: 4.7/5.0

## Work Experience

Programming Language Engineer | Ericsson | Jul 2020 - Present | Budapest, Hungary

- Designed and implemented domain-specific languages for telecommunications systems configuration and testing.
- Developed custom compilers and interpreters for internal programming languages used across global teams.
- Created static analysis tools detecting potential bugs and security vulnerabilities in codebases with 5M+ LOC.
- Built language servers and IDE plugins providing intelligent code completion and real-time error checking.

## Skills

Programming Languages: Haskell, OCaml, Rust, Clojure, Scala, Erlang, F#, Go, Java, C++

Language Implementation: Compilers, Interpreters, JIT Compilation, Bytecode, Code Generation

Language Tools: Parser Generators, Lexical Analysis, Abstract Syntax Trees, Type

Checkers

Formal Methods: Formal Semantics, Type Theory, Program Analysis, Formal Verification, Model Checking

Concurrency: Actor Model, Software Transactional Memory, Communicating Sequential Processes

Tools: LLVM, ANTLR, Yacc/Bison, Language Server Protocol, Custom IDE Integration

Other: Domain-Specific Languages, Meta-programming, Software Verification, Performance Optimization

## **Certificates**

Certified Programming Language Specialist

Advanced Functional Programming Certification

LLVM Developer Certification

Formal Methods Professional

## **Awards**

Best Programming Language Design - International Conference on Programming Languages 2023

Ericsson Technical Excellence Award 2022

Open Source Contribution Award - Budapest Tech Community 2021