

Martijn Voorwinden

🎓 Msc. Computer Science Student

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About

Hi, I'm a Computer Science student interested in basically anything to do with Computer Science, but primarily programming languages theory, compiler construction, type and effect systems, and functional programming. In my free time I tend to tinker with small programming languages, compiler passes, or runtime systems, which you can find on my GitHub or you can read about some of my projects on my blog (see top of page). Professionally I have experience with Haskell, Golang, and Typescript development, and have worked on both backend services and frontend applications. I am currently looking for PhD positions in the programming languages and compilers fields starting from Fall 2026. If you are interested in collaborating or have any questions, feel free to reach out to me!

Experience

Digitect **Oct 2023 - Present:** *Software Developer*
Worked/working on internal tooling and the flagship product EC-API-Design, a tool for modelling meta-data and APIs based on it. Backend work in Golang and Java, frontend work in Typescript, React, and Theia.

Digitect **Feb 2024 - Jun 2024:** *Thesis Intern*
Worked on a thesis project to explore directions for a new version of EC-API-Design. Included work on Automatic/Hybrid Graph Drawing, compilers, modular IDEs, and system design.

Deloitte **Feb 2023 - Jun 2023:** *Research and Development Intern*
Researched and developed a tool for the automatic generation of API-led diagrams based on Mule4 source code. The tool included a parser and analyser for Mule4 projects, an IR for describing the structure of API-led diagrams, and a renderer for generating diagrams based on the IR. The tool was implemented in Java and used the Graphviz library for rendering.

Vomar **Aug 2019 - Apr 2023:** *Cashier*


Education

Utrecht University **Sep 2024 - Current:** *Msc. Computer Science*
Grade: 8.1/10, GPA 4.00
Thesis Topic: Towards a WasmGC backend and Runtime System for MicroHs.
Skills: Compilers, Programming Language Theory, Static analysis, Language Based Security, Algorithms, Mathematical Proofs, Proof assistants, Haskell, Agda, Rocq, WebAssembly, Academic Research.

HU University of Applied Science Utrecht **Sep 2020 - Jul 2024:** *BSc. Computer Science*
Grade: 8.9/10, GPA 4.00
Skills: Back-end, Front-end, Object Oriented, Software Architecture, Web development, Microservices, Messaging, Scrum, Software Modeling, Continuous Integration, Software Quality, Algorithms, Databases.


Utrecht University **Sep 2023 - Feb 2024:** *Minor Computer Science*
Grade: 8.6/10, GPA 4.00
Skills: Mathematical Proofs, Functional programming, Haskell, Programming Languages Theory, Compilers, Computer architecture, Computer networks

Certifications

 IELTS Academic 8.0 band - *Issued Jan 2024*

Languages

 Dutch - Native proficiency

 English - Full professional proficiency

**References are available upon request*