

## SUMMARY

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Functional programming enthusiast and avid polyglot. A skilled software developer with a passion for learning and solving real-world problems in innovative ways.

## EMPLOYMENT

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Senior Software Engineer, Core	Scrive	08/2025 — Present
• TBD		
Software Engineer, Infra	Channable	02/2021 — 08/2025
• Refactored infrastructure responsible for importing terabytes of data from external services per day, improving debuggability and observability.		
• Designed and implemented AI-assisted categorization using state-of-the-art techniques for mass text classification, improving the existing model performance by 3x.		
• Led the integration of user-defined computations into a high-performance compute pipeline through analysis, and application of programming language theory.		
• Improved internal core systems by analyzing expressivity and usability, creating well-researched proposals, improving scalability, performance and developer experience.		
Software Engineer	Cargowatch	02/2018 — 12/2020
• Implemented a specialized web portal for customer support and designed a DSL for invoicing specification.		
• Algorithmically improved the existing automatic invoicing process.		

## EDUCATION

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MSc. Computing Science	Utrecht University	2018 — 2020
• Thesis: Formalized Correctness Proofs of Automatic Differentiation in Coq. Proof was accomplished using logical relations accompanied by simple but effective language representations and denotational semantics.		
• Coursework: Advanced Functional Programming, Compiler Construction, Program Semantics and Verification, Concepts of Program Design, Optimization and Vectorization.		
BSc. Computer Science		
• Coursework: Data Structures, Algorithms, Functional Programming, Discrete Mathematics, Languages and Compilers.		

## PROJECTS

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### Helium

- Contributed to the Helium Haskell compiler developed at Utrecht University. Implemented missing Haskell2010 features and improved interoperability between recent experiments and previous work on the compiler.

## PROGRAMMING LANGUAGES AND TECHNOLOGIES

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- Programming Languages:
  - Proficient: Haskell, Python, Nix, SQL
  - Familiar: PHP, Typescript, C#
- Technologies: Git, PostgreSQL, Sqlite, Docker
- Languages: Dutch, English