

# André VIDELA

FUNCTIONAL PROGRAMMER / ASPIRING TYPE THEORIST

## PERSONAL DATA

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## BIO

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Fascinated by programming languages, I seek excellence, correctness and beauty in code. I work a lot in Idris and Haskell trying to build real-world software out of provable programs. My deepest interests lie in type systems and programming language theory and design.

## WORK EXPERIENCE

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OCT. 2019 - CURRENT	Research at St.-Andrews University (Scotland)  In the context of a Msc(res), I am currently studying new ways of using a type system with linear types to generate performant bytecode using the Idris2 compiler.	Idris
FEB. 2019 - CURRENT	Software Engineer at Statebox (Remote)  Development and maintenance on a Purescript web application. Development, maintenance and design of Open Source libraries in Idris including implementations and proofs for protocols such as <a href="#">multibase</a> and <a href="#">multihash</a> . Participated in the development of the core engine implementing formal definition for categories and their properties. Maintainer of <a href="#">typedefs</a> , a protobuf competitor leveraging the algebra of types.	Idris, Purescript, Category theory, Type theory
APR. 2018 - DEC. 2018	Backend Developer at Bity SA (Neuchatel)  Lead a new project from scratch to production which aimed to provide a common API for interacting with cryptocurrency nodes. The goal was to enable easy management of additional cryptocurrencies and provide strong guarantees about the business logic by leveraging the Haskell type system and using thorough testing practices.	Haskell
OCT. 2017 - JAN. 2018	Mobile Developer at Krown SA (Geneva)  Developed and maintained iOS app for business customers	Swift, Rx
OCT 2016 - JUNE. 2017	Software Engineer at Sicpa (Lausanne)  Designed, developed and maintained internal and public APIs and libraries for iOS. Developed and maintained small and medium scale iOS apps using agile Scrum.	Swift, Obj-C

## (PROGRAMMING) LANGUAGES

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Mastery	Idris	FRENCH:	Mothertongue
Excellent	Scala, Swift, Haskell	ENGLISH:	Fluent
Intermediate	Clojure, C++, C, JS	SPANISH:	Good speaker
Beginner	Coq, Rust, Agda	JAPANESE, ITALIAN:	Basic knowledge

## EDUCATION

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2019 - 2020	Msc(res) at St.-Andrews University (ongoing)
2017 - 2019	Licence in Computer Science at Unidistance (remote)
July 2017	EUTypes summer school (Coq, Agda, HoTT, $\lambda$ -calculus)
May 2017	Introduction to Logic by Stanford University on Coursera. <a href="#">statement of accomplishment</a>
2012 - 2016	Attended Bachelor in Computer Science at EPFL Collected 131 credits
2007 - 2012	Maturité Gymnasiale (physique et application des math)

## TALKS AND PUBLIC WORK

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SEPT. 2019	Gave a short talk about <i>Typedefs</i> for the 3rd Statebox Research Summit	Idris
FEB. 2018	Interviewed for the Corecursive podcast: <a href="#">007 - Total Programming Using Swift with Andre Videla</a>	Swift, Idris
DEC. 2017	Gave a talk about Idris and dependent types at the Software verification meetup.	Idris
AUG. 2017	Presented work on <i>Total Parser Combinators</i> by Nils Anders Danielsson for a small local conference ( <a href="#">VOD on youtube</a> )	Idris, Agda