

# Henrik Larsson

Stockholm, Sweden

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## Education

KTH Royal Institute of Technology

Master of Science in Engineering, Software Engineering

Aug 2018 – Jun 2020 | Stockholm, Sweden

GPA: 4.8/5.0

Activities: Teaching Assistant for Advanced Algorithms, Open Source Project Contributor, Hackathon Organizer

Relevant Coursework: Functional Programming, Compiler Construction, Programming Language Theory, Type Systems, Formal Verification, Concurrent Programming, Distributed Systems

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

## Work Experience

Functional Programming Specialist | Klarna | Jul 2020 - Present | Stockholm, Sweden

- Developed microservices for payment processing system using Scala and Haskell, handling millions of transactions daily.
- Implemented property-based testing frameworks reducing defect rates by 70% in critical financial systems.
- Created domain-specific languages for financial risk modeling using advanced type systems.
- Mentored team members in functional programming paradigms and type-driven development.

## Skills

Functional Programming: Haskell, Scala, Clojure, Erlang, Elixir, F#, OCaml

FP Concepts: Type Systems, Monads, Immutability, Pattern Matching, Higher-Order Functions

Libraries/Frameworks: Cats, ZIO, Akka, ScalaCheck, QuickCheck, Servant, Elm

Concurrency: Actor Model, STM, CSP, Functional Reactive Programming

Databases: PostgreSQL, Cassandra, Datomic, CouchDB

Development: Functional Design Patterns, TDD, Property-Based Testing, Type-Driven Development

Other: Category Theory, Lambda Calculus, Type Theory, Compiler Design, DSL Development

## **Certificates**

Lightbend Reactive Architecture - Professional

Advanced Scala Certification

Certified Functional Programmer

Apache Kafka Certification for Developers

## **Awards**

Best Paper Award – International Conference on Functional Programming 2022

Open Source Contribution Award – Functional Programming Sweden 2021

Nordic Programming Language Competition Winner 2020