

Resume

Gustav Behm



Contact information

Homepage: rootmos.io
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Location: Berlin, Germany

Professional experience

- Mar, 2016 – Senior backend developer, [Upvest](#)
Multi-protocol blockchain storage solutions, integration of: [Arweave](#), [Ethereum](#), [Bitcoin](#)
Scala ([Cats](#)), [Akka](#) (streams, akka-http), [GCP](#)
- Oct, 2016 – Jan, 2018 Backend Engineer, [Imagine](#)
User data and subscription management services
Scala ([Scalaz](#), [Finagle](#)), Haskell ([Servant](#)), C ([H2O](#)), [Cassandra](#), [AWS](#)
- Jan, 2016 – Oct, 2016 Software Engineer, [Klarna](#)
Core payments team, bank-facing services in a microservice setting
Scala ([Dropwizard](#)), [PostgreSQL](#), [AWS](#)
- Jun, 2014 – Jan, 2016 Designer, [Ericsson](#)
Soft real-time, distributed telecommunication node (3GPP [HSS](#)), C++

Academic experience

- 2012 – 2014 Licentiate of Engineering, Mathematics, [KTH Royal Institute of Technology](#)
Title: [Carleman-Sobolev classes and Green's potentials for weighted Laplacians](#)
20% teaching (tutoring and teacher's aide in Linear Algebra and Calculus)
Postgraduate courses:
– Distribution Theory
– Elements of potential theory
– Non-linear PDE
– Fourier Analysis
- 2010 – 2012 Degree of Master of Science, [Mathematics](#), [KTH Royal Institute of Technology](#)
Degree of Master of Science in Engineering, [Engineering Physics](#), [KTH Royal Institute of Technology](#)
Title: [Green's function for two weighted Laplacians in the unit disc \(PDF\)](#)
Selection of courses:
– Integration Theory
– Commutative Algebra and Algebraic Geometry
– Topology
– Functional Analysis
- 2007 – 2010 Degree of Bachelor of Science, Mathematics, [KTH Royal Institute of Technology](#)
Title: [Low order p-groups: Linear representations of p-groups \(PDF\)](#)

Personal projects

- [silly-k](#) — a language inspired by [K](#) and [APL](#), compiled using [nanopass](#) targeting [Malfunction](#)
- [silly-ml](#) — an ML-like language implemented in OCaml, compiled to x86-64 assembly with a custom runtime
- [silly-joy](#) — an interpreter for the concatenative language [Joy](#), implemented in Haskell using extensible-effects
- [silly-actor](#) — a small actor model implementation that compiles to C using nanopass
- [lambdasyllum](#) — a place to study lambda calculi: simply typed lambda calculus, System F, Church encodings

Hobbies

- soundcloud.com/rootmos — experimenting with analog electronic music production
- [coq-hack](#) — proving fun things using the dependently typed proof assistant [Coq](#)
- [apl-hack](#) — solving programming puzzles using vector based languages [APL](#), [K](#) and [J](#)

Language experience

English Fluent in both written and spoken English
– Jan, 2018 [TOEFL iBT](#) Total score: 118/120 ([score comparisons](#))
– Mar, 2007 [Cambridge English: Advanced](#) Grade B ([ESOL Level 2](#), [CEFR C1](#))

Swedish Native