Eric Seidel

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Summary

Software Engineer and Architect with extensive experience in building scalable, efficient systems and designing cutting-edge domain-specific languages. Specializes in functional programming, programming languages, and distributed systems, with a proven ability to translate complex technical requirements into impactful solutions.

Experience

Lead Architect – Domain-Specific Languages, Bridgewater Associates 2021 – present

- Led the continued evolution of a Scala-based DSL for economic modeling and investment logic.
- Introduced AI tooling for model authors, making code assistants effective with our DSL.
- Drove the platform's move from IntelliJ to VS Code with interactive DSL execution, shortening iteration cycles.
- Set architectural direction and alignment across business, product, and engineering.

Senior Software Engineer, Bloomberg 2017 – 2021

- Member of the Engineering Champs organization, helping to guide the technical direction of the company.
- Defined org-wide conventions for Kafka usage in simple, opinionated libraries, avoiding common pitfalls.
- Extended Fortran parser for non-standard features, enabling an automated refactoring team.
- Designed and maintained libraries and infrastructure for writing Haskell at Bloomberg.

Education

UC San Diego, PhD in Computer Science (Programming Languages) 2017

- Dissertation: Data-Driven Techniques for Type Error Diagnosis.

Open Source & Service

- Member, GHC Steering Committee (2018–2025).
- Program Committee, Haskell Symposium 2019.
- Contributed HasCallStack (lightweight call-stack mechanism) to GHC.

Selected Publications

Dynamic Witnesses for Static Type Errors (or, Ill-Typed Programs Usually Go Wrong) 2018
E. L. Seidel, R. Jhala, W. Weimer
Journal of Functional Programming

Learning to Blame: Localizing Novice Type Errors with Data-driven Diagnosis 2017
E. L. Seidel, H. Sibghat, K. Chaudhuri, W. Weimer, R. Jhala
OOPSLA 2017

Refinement Types for Haskell 2014
N. Vazou, E. L. Seidel, R. Jhala, D. Vytiniotis, S. Peyton-Jones
ICFP 2014

Technologies

Languages: Haskell, Scala, Rust, Python, C

Domains: Domain-Specific Languages, Functional Programming, Type Systems, Distributed Systems