# Eric Seidel

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## Summary

Architect and software engineer specializing in domain-specific languages, programming languages, and distributed systems. Built and evolved production Scala and Haskell platforms used by hundreds across engineering and investment teams, improving feedback loops, runtime performance, and cross-functional delivery.

## Experience

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

- Led evolution of a Scala DSL, shipping feature, performance, and tooling upgrades that accelerated authoring speed and improved runtime performance.
- Enabled AI-assisted development for DSL users by delivering context documentation and tooling tailored to common DSL authoring workflows.
- Drove migration of all DSL users from IntelliJ to VS Code, adding interactive execution and IDE integration that cut iteration time from minutes to seconds.
- Led greenfield design of a replacement DSL and production-grade compiler, and advocated a no-go decision based on delivery risk and cost-benefit analysis.
- Owned technical direction for a DSL platform used by hundreds of users, aligning roadmap and architecture priorities across business, product, and engineering.

**Senior Software Engineer**, Bloomberg 2017 – 2021

- Selected to Bloomberg's Engineering Champs, a small senior cohort shaping company-wide engineering standards and architecture direction.
- Built the default Kafka library for Bloomberg C++ services, codifying org-wide conventions with safe defaults, clear delivery semantics, and built-in monitoring to reduce common integration pitfalls.
- Extended a Haskell-based Fortran parser to support vendor-specific language features, enabling automated migration of a large codebase from big-iron systems to Linux.
- Developed and maintained Haskell libraries for Bloomberg's in-house RPC framework and database platforms.

## Technologies

**Languages:** Scala, Haskell, Rust, Python, C

**Platforms:** Apache Kafka, Apache Spark, gRPC, PostgreSQL

**Domains:** DSL design, distributed systems, type systems, developer tooling, AI-assisted development

## Open Source & Service

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

## Education

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

- PhD dissertation: Data-Driven Techniques for Type Error Diagnosis.
- Published peer-reviewed work on refinement types and type error diagnosis in JFP, OOPSLA, and ICFP.

**The City College of New York**, BS in Computer Science 2012

- Graduated magna cum laude.
- Awarded the Engineering Achievement Medal (top of graduating class).