Elijah Stone

✉ elronnd@elronnd.net   •   ⌗ moon-chilled

History

August 2024–December 2025: **Software engineer, Heliax AG**
Design and implementation of research blockchain protocol **Anoma**, primarily using Elixir.

May 2022–August 2023: **Student, Langara college**

November 2020–March 2022: **Software engineer, Symmetry Investments**
Design, development, maintenance, and deployment of an in-house application for managing sensitive data and automating business processes.
Used: D, TypeScript, PostgreSQL, and an in-house programming language.

Featured Open Source Contributions

- **J programming language implementation**: responsible for most of its support for concurrency; designed and implemented a system for human-readable error messages; significantly improved performance of some code; miscellaneous maintenance. Used: C, J, x86 assembly.
- **SICL implementation of Common Lisp**: implemented some core and extended floating-point funtionality; did miscellaneous maintenance work and bug fixes.

Featured Ongoing Personal Research Projects

- Transactional memory implementation using a novel algorithm to achieve asymptotically faster forward progress under contention than previous approaches.
- Compiler using a novel design to explore various areas, including incrementality, interactivity, and correctness-by-construction.

Skills

- Proficient in C, x86 assembly, J, Common Lisp.
- Familiar with C++, Rust, Java, JavaScript/TypeScript.
- Proficient in shell and unix systems administration.
- Proficient in git.

Other

- Recipient of one Knuth cheque