LUCA LEWIN

Mathematics Student

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 github.com/lucalewin in linkedin.com/in/lucalewin

Skills

- **Programming:** Proficient in Java, C#, C, Python, Rust, and more.
- **Software Development:** Extensive knowledge and experience in self-taught programming over 8 years.
- **Problem Solving:** Demonstrated ability to tackle challenges persistently, including creating a compiler for a self-made programming language in C.
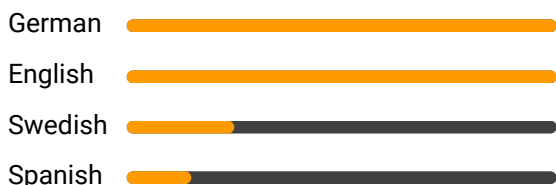
Hobbies

- **Sports:** Former football and basketball player.
- **Dancing:** Enjoyed ballroom dancing, particularly partner dancing.
- **Current Project:** Engaged in creating a comprehensive database and website for rigorous mathematics, requiring proofs for mathematical statements.

Goals

- **Short-Term:** Complete the rigorous math database and search website project.
- **Interests:** Explore algorithms and proof theory.
- **Long-Term:** Aspire to purchase a property in Northern Sweden with a distinctive red house.

Languages

German
English
Swedish
Spanish

ABOUT ME

I am Luca Lewin, a dedicated Mathematics student pursuing a Bachelor's degree at Lund University. Originally from Germany, I earned distinction in my Abitur, specializing in Mathematics, Physics, and Chemistry. Currently specializing in Numerical Analysis, I bring eight years of self-taught programming experience (Java, C#, C, Python, Rust), excelling in software development. Committed to advancing mathematical discourse, I'm working on a rigorous mathematics database and search website. Beyond academics, I find joy in sports and ballroom dancing

EDUCATION

B. Sc. Mathematics   2023 - present
Lund University, Sweden

I am currently pursuing a Bachelor of Science in Mathematics at Lund University, where I am cultivating a strong foundation in mathematical principles and analytical thinking. The program has equipped me with a comprehensive understanding of various mathematical disciplines, including in-depth coursework in linear algebra, analysis, and numerical analysis utilizing Python programming.

Abitur   2021 - 2023
KGS Wiesmoor, Germany

Completed Abitur at KGS Wiesmoor with a focus on Mathematics, Physics, and Chemistry as Leistungskurse (Advanced Courses). Additional Grundkurse (Basic Courses) included Politics and Economy, as well as English. Honored with the Mathematics Award.

PROJECTS

lucalewin.dev/projects

Programming Language Compiler

Developed a C-based compiler for a personal programming language. Implemented lexical analysis, syntax parsing, and code generation. Translated high-level language code into executable machine code.

github.com/lucalewin/luvascript-compiler

Rigorous Mathematics Database

Creating a rigorous mathematics platform with a database, proof verifier, and website. Requires expertise in database management, web development, and mathematical rigor.

github.com/qed-project