Ada Lovelace

ada@example.com · London, UK
LinkedIn · GitHub

Skills

Mathematics, Algorithm Design, Analytical Engine Programming, Differential Calculus, TypeScript

Experience

Mathematical Analyst · **Charles Babbage's Lab** 1834 - 1852
Analytical Engine Team

- Worked closely with Charles Babbage to understand the design of the Analytical Engine, contributing to its theoretical foundation
- Authored the world's first computer program, an algorithm intended to be processed by the Analytical Engine
- Developed computational algorithms for solving Bernoulli numbers, contributing to the foundational work for computer science
- Wrote extensive notes on the Analytical Engine, providing the first comprehensive description of a general-purpose computer and software
- Utilized differential calculus in the formulation of algorithms, demonstrating mathematical rigor in problem-solving

Translator · **Luigi Federico Menabrea's Sketch of the Analytical Engine** 1842 - 1843
London, UK

- Translated Luigi Federico Menabrea's "Sketch of the Analytical Engine" from French to English
- Added extensive annotations and notes to the translation, enriching the original document with detailed explanations and potential applications of the Analytical Engine
- Coined the term "poetical science" to describe the blend of art and logic in the creation of algorithms, laying the groundwork for the understanding of computational creativity

Correspondent · **Scientific Community** 1830 - 1852
London, UK

- Maintained extensive correspondence with leading scientists and mathematicians of the time, including Charles Babbage, Mary Somerville, and Michael Faraday
- Advocated for the potential of machines to go beyond mere calculation, foreseeing future applications in various fields including art and music

Education

Studies in Mathematics and Logic · **Private Tutors and Self-Study**
1828 - 1833

- Trained in mathematics and logic under the guidance of private tutors, including Mary Somerville
- Extensive self-study in differential calculus, number theory, and logic
- Focused on interdisciplinary approaches, combining the arts and sciences in her learning