Theodore Savin

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EDUCATION

• **Imperial College London**   *September 2019 - June 2025*
MEng Computing, 2:1 (Upper Second Class Honours)   London, UK
  ◦ **Notable courses**: Operating Systems, Databases, Software Engineering Design, Algorithm Analysis and
    Design, Object-Oriented Programming, Introduction to Machine Learning

EXPERIENCE

• **Minimax Labs Ltd. [⊕]**   *April 2022 - October 2022*
Software Engineer   London, UK
Tools: Java, React, TypeScript, MongoDB
  ◦ Developed an internal compiler used for "Price Expressions" (formulas that describe a price).
  ◦ Modified various report sections (e.g., P&L report) in the main application of the company to simplify
    their view and solved subtle bugs that caused erroneous values in the reports.
  ◦ Implemented new front-end features (e.g., vessel data comparison pages) and back-end functionality for
    data storage and retrieval using MongoDB, improving one of the company's websites.

PROJECTS

• **Dynamic Linking in WebAssembly (Rust), Final Year Thesis**   *November 2024 - June 2025*
Tools: Rust, Python, C++   [⬤]
  ◦ Built a user-space loader in Rust that also enables dynamic linking between WebAssembly Modules and
    demonstrated its use by calling the xtensor C++ library from a Python program.
  ◦ Adapted quickly by mastering new technologies (Rust, Wasmtime, WasiSDK) to complete the project.

• **HR Smart Contract on the Optimism Blockchain**   *November 2024 - December 2024*
Tools: Solidity, Foundry   [⬤]
  ◦ Deployed a Smart Contract on an Ethereum-based Blockchain, which provides the functionality to
    manage employees whose salaries are paid in ETH.
  ◦ Leveraged the Foundry toolkit to handle automated testing and local deployment on Anvil.

• **Competitive Programming Platform**   *May 2021 - June 2021*
Tools: JavaScript, React, Node.js
  ◦ Delivered an innovative web application using React and Node.js which matches competitors of similar
    levels based on a ranking system.
  ◦ Carried out the project using the Agile development approach (using tools like Slack and Kanban boards,
    having weekly meetings), adapting our application based on the users' feedback at each iteration.

• **WACC Compiler**   *January 2021 - March 2021*
Tools: Java, ANTLR   [⬤]
  ◦ Implemented a compiler in Java for the WACC language, a language very similar to C.

SKILLS

• **Programming Languages:** Java, JavaScript, Go, Python, C, Rust, SQL, Solidity, Haskell
• **Software Development Tools:** Git, Spring, Ecore Tools, Bash, Make, GDB, CI/CD pipelines, YAML
• **Proficient in algorithms, data structures, and object-oriented design principles**

ADDITIONAL INFORMATION

Languages: Romanian (Native), English (C1 certification passed with C2 level), French (B2 level)
Competitions: Ranked in the first places in Mathematics Olympiads over the high school years (county level)