# 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**: Software Engineering Design, Algorithm Analysis and Design, Object-Oriented Programming, Introduction to Machine Learning, NLP, Complexity

## 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, Final Year Thesis** *November 2024 - June 2025*
*Tools: Rust, Python, C++* [⬤]
- ◦ Enabled 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, C, JavaScript, Rust, React, Python, 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)