

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, Databases, 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
- **Development Tools & Frameworks:** Git, Spring, React, PyTorch, NumPy, pandas, Ecore Tools, Bash, Make, CI/CD pipelines, YAML, GDB
- **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)