Michail Pardalos

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About me

I am a second year Electronic and Information Engineering student. This degree has allowed me to develop skills in hardware design, software engineering and systems architecture. In addition, through my own projects and past experiences, I have broadened my knowledge in functional programming, programming language theory and software modelling.

Education

Imperial College London *(2017-2021)*

Electronic and Information Engineering

Currently pursuing. The degree focuses on a mix of Electronic engineering and Computer Science. Currently on track to getting a 2:1.

Costeas Geitonas School *(2015-2017)*

International Baccalaureate

Earned a school scholarship for 75% of the tuition fees of both years of the Baccalaureate.
Final mark: 38/45

Skills

Programming Languages

Haskell	**Proficient**
Python	**Proficient**
Alloy	**Proficient**
C,C++	**Competent**
OCaml	**Competent**
C#	**Familiar**

Languages

English	**Proficient (C2)**
Greek	**Native**
German	**Comfortable (C1)**
Spanish	**Learning**

Tools

Git, Gitlab CI, HUnit, Quickcheck, pytest

Experience

Imperial College London - Circuits and Systems Group *(July-August 2019)*

Modelling SQL Transaction Isolation

- Modelled SQL transaction isolation to check for concurrency issues
- Had to accurately model vague descriptions from the standard and documentation
- Used the **Alloy** modelling language and **OCaml**

Atticsoft *(July-August 2017)*

Web development Internship

- Web development company in Greece
- Developed an internal website for managing employees' leaves
- Technologies used: C#, Umbraco CMS and VueJS

Projects

Kima *(August 2018-Ongoing)*

Programming language design and implementation

- Interpreter for mixed imperative/functional language
- Current features: static typing, algebraic data types, higher-order functions
- Planned features: **algebraic effects**, **parametric polymorphism**/**generics**, native compiler through LLVM
- Implemented in **Haskell** and tested using **HSpec**, **Quickcheck**, and **Gitlab CI**
- Repository link: Github (http://gitlab.com/michalis_pardalos/kima)

MIPS Simulator *(October 2019-December 2019)*

Software simulator for MIPS-1 ISA

- Developed as a coursework project for Computer Architecture module
- Written in C++
- Includes testbench of nearly 200 tests
- Final mark: 83%