

Matteo Durante

Mathematician & Software Engineer

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GitHub [waifod](https://github.com/waifod)

LeetCode [waifod](https://leetcode.com/waifod)



SUMMARY

My notable strengths lie in persistence and adeptness in quantitative and abstract reasoning, honed through dedicated pursuits in theoretical mathematics, computer science, and independent exploration of Linux from an early age. Transitioning into the professional realm, my passion has evolved towards crafting performant software solutions, and I am currently seeking fresh opportunities related to C++, Rust, distributed systems or low latency, high-performance software.



SKILLS

Computer

Languages (professional): C++, Java, Obj-C, Swift
Other languages: Haskell, Kotlin, L^AT_EX, Python, Rust
Tools: Git, Tmux, Vim et al
Other: Algorithms, Data Structures, Linux, FP, OOP

Quantitative

Analysis, Differential Geometry, Game Theory, Mathematical Logic, Microeconomics, Numerical Analysis, Probability Theory, Type Theory and lots of Algebra

Languages

English: C1, IELTS 8.0 (2017)
French: A2
Italian: native
Spanish: B2, currently studying



EDUCATION

Mathematics, MSc / ALGANT / 2018 - 2022

Leiden (NL, M1), Regensburg (DE, M2) / Distinction, 1.1
Focus Algebra and related fields
Thesis Localizations of Models of Type Theory
Supervisor Hoang-Kim Nguyen

Mathematics, BSc / UniTo / 2015 - 2018

Turin (IT) / 110 cum Laude
Focus Algebra, Analysis, Geometry, Logic, Probability
Thesis From Algebraic Varieties to Schemes
Supervisor Cinzia Casagrande

Economics, BSc / Collegio Carlo Alberto / 2016 - 2018

Turin (IT) / Honor Program / A
Focus Game Theory, Microeconomics



WORK

Software Dev Engineer L4 / 2022 - ongoing

Amazon / Madrid (ES)

Developing services managing author data with AWS, DynamoDB, Java and Typescript. Implemented features of the Library of the Kindle products using Obj-C, Swift and C++. The main project was the development of a cross-surface framework encapsulating the business logic across all Kindle projects, of which I owned the entire integration into the Kindle app for Apple devices.

Agile Android autonomy AWS C++ DynamoDB
Git iOS Java Kotlin Obj-C Swift Typescript
Unix Terminal

Math Coach / 2015 - 2017

Associazione Subalpina Mathesis / Turin (IT)

Coached prospective participants of the Italian Math Olympics for two high schools, preparing them for both individual and team competitions

Olympic Math Teaching Team Building



PROJECTS

- learningcpp, a collection of resources and sample programs to learn C++
- rtnya, a C++ ray tracing software
- funktystextgenbot, a Rust text-generating Telegram bot
- Notes on Monad Theory



AWARDS

- Collegio Carlo Alberto's scholarship 2016-2018
- 22nd placement at Bocconi's Games 2017
- 2nd placement at the individual math competition and 3rd placement at the team competition by the Diderot Project (Alpha Class) 2016
- My team got 12th and 7th placements at the Italian Math Olympics finals in 2014 and 2015 respectively