

## EDUCATION

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- **University of Oporto, FEUP** Porto, Portugal  
*BSc. + MSc. in Informatics and Computing Engineering. GPA: 18/20 (top 3%)*  
2015 – 2020
- **Budapest University of Technology and Economics** Budapest, Hungary  
*Semester abroad as part of the Erasmus program.*  
Sep 2019 – Jan 2020

## EXPERIENCE

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- **Klarna** Berlin, Germany  
*Software Engineer*  
Oct 2020 - Present
  - Moved to Germany as part of Klarna's Graduate Program 2020, the first edition in Berlin.
  - I focus mostly on designing and developing Serverless solutions to automate regulatory work and miscellaneous backend services for Klarna's banking products. *Typescript, Java, AWS Lambda, Node.js*
- **LTPLabs** Porto, Portugal  
*Junior Data Scientist*  
Feb 2020 - Jul 2020
  - Part of the development team of a predictive analytics system for Portugal's biggest food retailer.
  - Designed and developed ML models for price elasticity prediction and sales forecasting. *Python, H2O, Apache Impala*
  - Wrote my MSc thesis "Improving markdown decisions in non-food retail - a retailer's case study" based on my participation.
- **INESC TEC** Porto, Portugal  
*Research Assistant*  
Jan 2019 - August 2019
  - As a research grant recipient, I joined Project MELOA's development team, where I designed and developed a real-time data streamer to authenticate, deliver, and load balance requests sent from IoT devices. *RabbitMQ, Docker, Node.js*
  - Researched state of the art GraphQL based solutions to extend REST APIs with custom logic, and developed a solution resorting to MELOA's API and a standalone database. *Node.js, Apollo Server, PostgreSQL, React*
- **University of Porto, FEUP** Porto, Portugal  
*Teaching Assistant*  
Sep 2017 - Dec 2018
  - As a working student I assisted Professors in two (2) courses I was previously enrolled in during my BSc program.
  - **Computer Laboratory:** Guided students through implementing low-level device drivers (e.g., mouse, GPU) on a VM running Minix OS. Participated in both 2017 and 2018 editions of the course.
  - **Computer Graphics:** Guided students through building projects with WebGL while teaching the basics of computer graphics algorithms and structures. Was also responsible for grading and giving feedback on students' weekly submissions.
- **Freelancing** Porto, Portugal  
*Web Development*  
Summers 2015/16
  - Spent early university summers designing and developing websites as a learning experience and *pro bono* effort.
- **Handball** Porto, Portugal  
*Semi-Professional Player*  
2015 – Sep 2020
  - Played professional handball during my university years after 11 years of playing the sport as a hobby.
  - Played in Portugal's top division for five (5) seasons representing ADA Maia/ISMAI.
  - Represented Portugal in the 2018 World University Handball Championship in Rijeka, Croatia, taking 4th place.

## OTHER PROJECTS

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- **🕒 Semana de Informatica (2018):** Website for the 2018 version of informatics and software engineering based conference Semana de Informatica, which ran for four days at FEUP. *Node.js, Nuxt.js, Vue.js*
- **🎮 Retro Reversi (2017):** Open source Android app of the popular board game Reversi, featuring an AI, a retro design, and online multiplayer. *Java, Android, libGDX, Google Play Games Services.*
- **🕒 Presto (2018):** SPA where people can ask questions and contribute with answers, enabling a community of insights on a wide variety of topics. Worked on the REST API and front-end development. *Laravel, Vue.js, Docker.*
- **🕒 University Application Simulator (2017):** Web app that simulates the calculations required by students applying to a University through the public system. Works for multiple (Portuguese) educational models. *JavaScript, HTML/CSS.*

## TECHNICAL SKILLS

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- **Languages:** JavaScript/TypeScript, Python, Java, C, C++, Prolog, SQL, HTML/CSS, Pony
- **Skills:** DevOps, Cloud Computing, Web Development, Machine Learning, Bioinformatics Methodologies, Databases, Low-Level Device Drivers, Graphics Computing
- **Technologies:** Node.js, AWS Services, Docker, Vue.js, Pandas Ecosystem, Express, RabbitMQ, PostgreSQL, React
- **Languages:** Portuguese (native), English (C2), Spanish (B2)