

## EXPERIENCE

- **Klarna** Berlin, Germany  
*Software Engineer* Oct 2020 - Present
  - Contributed to the success of the Klarna Savings Account in Sweden and expansion to Germany through a new architecture for the interest management services, enabling support for additional markets. *Java, Spring, PostgreSQL*
  - Streamlined the development lifecycle of 20+ production services by actively contributing to an internal framework that enables Serverless projects setup in adherence to high engineering standards. *AWS CDK, Typescript, AWS Lambda*
  - Enabled Klarna's banking products to charge fees by designing a self-service API with configurable business logic. Pioneered the usage of Serverless technologies. *Typescript, AWS Lambda, DynamoDB, API Gateway*
  - Selected out of over 300 applicants for Klarna's Graduate Program 2020, the first edition in Berlin.
- **LTP Labs** Porto, Portugal  
*Junior Data Scientist* Fev 2020 - Jul 2020
  - Part of team developing a predictive analytics system for Portugal's biggest food retailer. Given my background had a solid impact on the company's software engineering quality by introducing and advocating for best practices.
  - Applied state-of-the art ML models for price sales forecasting and developed a novel methodology for price elasticity prediction. Responsibilities across the entire lifecycle including production deployments. *Python, H2O.ai, Apache Impala*
  - Wrote my MSc thesis "Improving markdown decisions in non-food retail - a retailer's case study" based on the participation.
- **INESC TEC** Porto, Portugal  
*Research Assistant* Jan 2019 - August 2019
  - Received a research grant through which I joined Project MELOA's team, where I designed and developed a data stream processing application 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. Integrated solution resorting to MELOA's API and a standalone database. *Node.js, Apollo Server, PostgreSQL, React*
- **University of Porto, Faculty of Engineering** Porto, Portugal  
*Teaching Assistant* Sep 2017 - Dec 2018
  - As working student fulfilled my pedagogy passion by teaching in practical class of 2 courses I was previously enrolled in.
  - **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. Also responsible for grading and giving feedback on students' weekly submissions.
- **Freelancing** Porto, Portugal  
*Web Development* Summers 2015/16
  - Spent early university summers developing websites for small enterprises 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 5 seasons representing ADA Maia/ISMAI.
  - Represented Portugal in the 2018 World University Handball Championship in Rijeka, Croatia, taking 4th place.

## EDUCATION

- **University of Porto, Faculty of Engineering** Porto, Portugal  
*BSc. + MSc. in Informatics and Computing Engineering. GPA: 18/20 (top 3%)* 2015 - 2020
  - Lead the engineering team of the 2018 edition of FEUP's student-run tech conference "Semana de Informatica".
  - Founded the ACM FEUP Student Chapter in representation of ACM, the world's largest scientific computing society.
- **Budapest University of Technology and Economics** Budapest, Hungary  
*Semester abroad as part of the Erasmus program.* Sep 2019 - Jan 2020

## IMPACTFUL PROJECTS

- **🎮 Retro Reversi:** Open source Android app of the popular board game Reversi, featuring an AI and online multiplayer. *Java, Android, libGDX, Google Play Games Services.*
- **📊 University Application Simulator:** Web app to simulate the calculations required by students applying to University through the Portuguese public system. Widely used in relevant seasons (60k visitors per day). *JavaScript, HTML/CSS.*

## TECHNICAL SKILLS

- **Programming:** JavaScript, TypeScript, Java, Python, SQL
- **DevOps:** AWS CDK/CloudFormation, Docker, Gitlab CI, Terraform (basic)
- **Web:** Node.js, Spring, Vue.js, React, Express, GraphQL, HTML/CSS
- **Data Science/Engineering:** Pandas, scikit-learn, H2O.ai, Spark (basic)
- **Databases:** PostgreSQL, DynamoDB, MongoDB (basic)
- **Languages:** Portuguese (native), English (C2), Spanish (B2)