

# João Conde

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## EDUCATION

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### Faculty of Engineering of the University of Porto

Sep. 2015 – July 2020

*MSc in Informatics and Computing Engineering (16/20)*

*Porto, Portugal*

- Master's Thesis entitled *Lightweight Real-time Feature Monitoring (19/20)*
- Author of a patent on the resulting algorithm

## TECHNICAL SKILLS

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**Languages:** Rust, Python, Java, C++, TypeScript, JavaScript, C, Prolog, Elixir

**Web Frameworks:** ReactJS, Phoenix, Django, Flask, NodeJS

**Database Technologies:** PostgreSQL, SQLite, MongoDB

**Other Relevant Technologies:** Git, Spark, RabbitMQ, Unity, Godot

## EXPERIENCE

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### Software Engineer

Sep. 2020 – Present

*Platforme*

*Porto, Portugal*

- Enabled horizontal scalability by splitting up monolithic services to microservices communicating via RabbitMQ
- Developed an open-source PNG blending Rust crate with a public API available in Rust, WASM and Python
- **Tech stack:** Rust, Python, JavaScript, TypeScript, RabbitMQ

### Systems Research Engineer

Feb. 2020 – July 2020

*Feedzai*

*Porto, Portugal*

- Researched and developed a lightweight method for analysis of numerical features in streaming environments and concept drift detection
- **Tech stack:** Hadoop, Spark, Java, Python

### Research Engineer

July 2019 – Sep. 2019

*Feedzai*

*Porto, Portugal*

- Researched state-of-the-art open source technologies to build static websites and scrape web interfaces
- Developed a documentation tool to aggregate both high and low level documentation in one searchable interface
- **Tech stack:** JavaScript, ReactJS

## AWARDS

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- **Google Hash Code 2019**, 9th national place
- **IEEEExtreme 2018**, 5th national place

## PROJECTS

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### 📌 Chip8 Emulator | *TypeScript*

- A Chip8 emulator written in TypeScript running on the browser

### 📌 Advents of Code | *Rust, C++, JavaScript, Python*

- Advent of Code is an advent calendar of small programming puzzles
- Every year I solve these puzzles for fun and to learn a new language and/or paradigm

### 📌 Competitive Programming | *C++, Python, JavaScript*

- Solutions for programming contests and practice exercises from online judges

## OPEN SOURCE CONTRIBUTIONS

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### **Jest** | *JavaScript*

- JavaScript Testing Library

### **Appier** | *Python*

- Python Web App development

### **PConvert** | *Rust*

- PNG blending tool

## EXTRACURRICULAR ACTIVITY

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### **ACM FEUP Student Chapter** | *Founding member of the FEUP chapter*

Mar. 2020 – July 2020

- Organized multiple biweekly talks that brought together software industry professionals, professors, academic researchers and students to discuss on varying subjects (such as the pursuit of higher education)

### **IEEE UP Student Branch** | *Computer Society Member*

Feb. 2018 – July 2020

- Organized and lectured multiple programming languages workshops
- Competed in IEEEExtreme 2018

### **Summer University** | *Teaching Assistant*

July 2019

- Taught programming fundamentals to juniors
- Taught the juniors how to build a *Brick Breaker* clone using the Scratch programming language

### **FEUP's competitive programming team** | *Team member*

Oct. 2018 – July 2020

- Deepened my knowledge of algorithms and data structures
- Competed in the Portuguese Inter-University Programming Marathon (MIUP) 2018