

# PEDRO TEIXEIRA

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## EDUCATION

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### University of Edinburgh

2017 - Present

*BSc (Hons) Computer Science, Class of 2021*

On track for First Class Honours

For my Honours project, I am working on approaches for automatic compiler (LLVM) retargeting from an architecture specification.

- Academic exchange at the **National University of Singapore** (2019 - 2020)
- Recent academic interests: Machine Learning, Compilers, Security, Distributed Systems
- Outside courses and extra credit: Introduction to Business, Leadership Development

## EXPERIENCE

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### University of Edinburgh - Tutor

Sep 2020 - Present

- Tutoring two groups for Informatics 2C - Computer Systems.
- Delivering drop-in tutorial sessions covering all pre-honours Informatics courses.

### J.P. Morgan - Software Engineering Intern

Jul - Aug 2020

- Research, ideation and development of a proof-of-concept web app for a non-profit partner, aiming to increase engagement of their target audience in a physically-distanced world.
- Used Balsamiq mockups, and Next.js and conducted brief tests with MongoDB and Docker for potential deployment on AWS EC2.
- This was a remote internship: effective teamwork and virtual communication were at the core of its success; proficiency with video-conferencing, documentation and issue tracking software.

### InfPALS - Student Leader (Volunteering)

Sep 2018 - Apr 2019

- Semester 1: planned and ran weekly peer learning sessions for first-year students.
  - Learned to work effectively in a team, facilitate group discussion and deliver motivating sessions on functional programming and computing theory
  - Designed activities to integrate academic contents with innovative and interactive ways to learn.
- Semester 2: sessions were oriented towards a wider audience and focused on acquiring practical skills.
  - Collaborated in the preparation of a  $\text{\LaTeX}$  workshop
  - Delivered sessions on Python for data science and `git`.

## COURSEWORK AND PROJECTS

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### Software Testing: Developing a Bash-like shell in Java

Jan - Mar 2020

- Investigating the best ways to test command-line applications and dealing with file manipulation.
- Development of a complete test suite, including unit, integration and system tests, using positive and negative test cases and mocking, with JUnit and Mockito.
- Experimentation with Test-Driven Development, bug hunting, project milestones, and code reviews.

### Interaction Design: Collaborative Travel Planning Application

Aug - Nov 2019

- Ideation, sketching, and discussion of the initial idea was followed by a user study, informed by surveys, interviews, and feedback on early prototypes.
- Prototyping at different levels: sketched wireframes, mockups (Balsamiq) and high-fidelity prototypes (Figma, XD).
- Usability testing, development of final interactive prototype, and documenting decisions and the design process.

## SKILLS AND INTERESTS

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**Programming:** Java (+ Spring), Python, C(++), JavaScript (React), Haskell, Assembly, HTML/CSS

**Auxiliary:** networking fundamentals, `git`, Bash (+ scripting), NoSQL data modelling, Prototyping

**Interests:** Web development, Applied Machine Learning, Automation, Leadership, Music

## LANGUAGES

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**Native/Proficient:** Portuguese, English • **Conversational:** Spanish • **Elementary:** German, French

## AWARDS

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**Edinburgh Award for Peer Learning and Support** Apr 2019

*University of Edinburgh Careers Service*

For having completed over 50 hours of volunteer work developed within the InfPALS and ExtremePALS teams, as well as extra training and working towards the development of three chosen skills: Creativity, Leadership and Communication.

**Alexander Darling Prize** Nov 2018

*University of Edinburgh Business School*

For the best performance in a 1<sup>st</sup> year business course

**Certificate of Highest Diploma Score** Sep 2017

*Escola Secundária Bocage*

For the best high school diploma score in the class of 2017

## PREVIOUS EDUCATION AND EXPERIENCES

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**Academia de Música e Belas-Artes Luísa Todi** (Portugal) 2009 - 2017

*Conservatoire Diploma*, Classical Guitar

Score: 19/20

2<sup>nd</sup> Place in Classical Guitar Competition: *Concurso Internacional de Música Cidade de Almada 2014*

Numerous group and solo musical presentations and concerts.

(See my LinkedIn profile)

Final project:

Music and Technology

**Escola Secundária Bocage** (Portugal)

2014 - 2017

*High School Diploma*, Science and Technology

Score: 19.8/20

Final year options:

Physics, Computing, Mathematics

Penultimate year options:

Physics and Chemistry, Descriptive Geometry, Mathematics