PEDRO TEIXEIRA

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EDUCATION

University of Edinburgh   2017 - Present
BSc (Hons) Computer Science, Class of 2021   Current Average: 87%

Working on honours project about LLVM retargeting and potential automated approaches from an architecture description language.

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

EXPERIENCE

University of Edinburgh - Tutor   Sep 2020 - Present

- Tutoring Computer Systems and delivering drop-in sessions covering all pre-honours 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 LaTeX workshop
    - Delivered sessions on Python for data science and `git`.

COURSEWORK AND PROJECTS

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

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

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

Interests: Web development, Machine Learning, Automation, Leadership

LANGUAGES

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

AWARDS

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 1st 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

Academia de Música e Belas-Artes Luísa Todi (Portugal) 2009 - 2017
Conservatoire Diploma, Classical Guitar Score: 19/20

2nd 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 for more)
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