Jose Linares

http://joselinares.me

hello@joselinares.me

PERSONAL STATEMENT

I am a highly driven research academic with software development and teaching experience. Proven experience in research and industry with strong organisational, management and communication skills.

WORK EXPERIENCE

Head of Software Development
Case To Answer Ltd, Fuse Legal Ltd, UK
06/21 - Present

I was tasked with heading a software department dealing with the management of staff, maintenance and implementation of a Customer Relationship Management system. In the end of my contract, I spearheaded several features in the CRM that attracted significant investment into the company from external sources.

Responsibilities:

- Conducting user case studies for implementation of new features using agile methods.
- Liaise with stakeholders to gather requirements.
- Liaise with senior level developers in laravel to report bugs and defects. Assign complex tasks to them if required.
- Plan weekly sprints, backlogs and tasks using kanban planners.
- Code in laravel to make new features into the system. Push new features using Git.
- Document code and produce architectural level documentation with systems maps, process maps and UML diagramming techniques.
- Communicate with end users using non technical jargon.
- Liaise with external developers when specialist skills are needed for the project.
- Participate in code reviews on all levels using Git.
- Mentor junior level programmers and assign tasks suited to their level.
- Train junior staff to program and use a variety of tools needed for development work.
- Select adequate technologies suited for a problem and assign best programmer for the job.
- Advise executive management on software direction and potential new technologies.
- Manage staff leave.
- Manage staff conflicts and assist in resolutions.
- Participate in interviews for new developers.

Computer languages and tools taught/used: Linux, windows, WSL, Angularjs, Javascript, Python, PHP, HTML, CSS, Balsamiq, MySQL, software development, software testing, unit testing, regression testing, Docker, software development, user stories, UX design, kanban, agile methodologies, pair and mob programming, github, staff management, project management.

Company Director / Software Developer Consultant
Black Mesa Systems Ltd
11/19 - 08/20
London, UK

Voluntary Strike Off on 29/08/2020 due to COVID-19 uncertainty

Responsibilities:

- Provide estimates and quotations to clients on proposed software projects (bespoke application software / full stack websites and databases).
- Gather client requirements
- Develop software prototype and conduct software testing of produced artefact for the client
- Acceptance testing
- Deployment of applications on host machines
- Invoicing clients as agreed on quotations
- Providing IT consultancy services to a range of customers including private and Government agencies

Computer languages and tools/skills used: LAMP stack (Linux, Apache, MySQL and PHP), Android and Java.

Teaching Associate
Lancaster University - Dr. Paul Rayson
10/18 - 08/19
Lancaster UK

Responsibilities:

Provide teaching support for senior academics in delivering course content to core Computer Science modules. This can be in the form of workshops or lab based teaching sessions.
Supervise PhD students and new Teaching Assistants who are teaching Lancaster University's modules.
Supervise student coursework and projects
Provide extra support for students who require extra help in labs or tutorials.

Complete training to be accepted as an Associate Fellow of the Higher Education Academy.

Provide teaching support for the following modules

SCC110 Software Development
SCC120 Fundamentals of Computer Science
SCC130 Information Systems
SCC140 Creative Technologies
SCC160 Fundamentals of Communication
MSC401 Data Science

Computer languages and tools taught/used: Linux, Java, Javascript, Python, PHP, HTML, CSS, Balsamiq, MySQL, ANSI C, Matlab, software development, software testing, software development methodologies, subversion and github.

Research Associate
Lancaster University - Dr. Jason Alexander
04/18 -05/18
Lancaster UK

Responsibilities:

To conduct technical development work (software and hardware) on our shape-changing interface toolkit in preparation for user evaluation studies. This includes updating and fixing the firmware, writing new software, and verifying the reliability of hardware components.

Computer languages and tools/skills used: Java, Arduino ANSI C, ATMEL studio, electronics prototyping, soldering, project management, firmware programming, linux.

Research Associate
Lancaster University - Dr. Keith Cheverst
06/2017 - 07/2017
Lancaster UK

Responsibilities:

- Tidy up SHARC framework documentation which will help future coders on the project.
- Configure a Wi-Fi Hotpot and a web server with a questionnaire to facilitate and increase user experience and activity in the National Trust Greater Dungeon Ghyll walks.
- Built an android Bluetooth harness for future developers to use on this project.

Computer languages and tools/skills used: Java, Android, estimote Bluetooth wireless stack, Wi-Fi configuration, questionnaire development, project management, LAMP stack (Linux, Apache, MySQL and PHP), Linux, UI/UX evaluation and testing, software development, unit testing, integrated testing, agile methodologies.

Post Graduate Teaching Assistant
Lancaster University
09/15 - 07/17
Lancaster UK

Responsibilities:

Deliver teaching and marking support at Lancaster University for a number of Undergraduate Computer Science courses:

SCC110 - Software Development
SCC130 - Information Systems
SCC140 - Creative Technologies
SCC150 - Digital Systems
SCC201 - Databases
SCC210 - Group Project
SCC212 - Advanced Programming

Supervise PhD students and new Teaching Assistants who are teaching Lancaster University's modules.

Supervise student coursework and projects

Co-authored along side with the course convenor and Senior Teaching Fellow, Dr Benachour and provided TA assistance for the pilot course MSCI509 - Innovation in E-Business which covers mobile app prototyping using Balsamiq and block chain technologies. Helped in coursework design for SCC130 Information Systems where students need to learn MySQL and PHP to develop a small web application.

Computer languages and tools/skills used: Java, project management, LAMP stack (Linux, Apache, MySQL and PHP), Python, Erlang, HTML, CSS, software methodologies, software patterns, OOP, functional programming.

Ph.D Academic - Co-Investigator
02/12 - 07/16
Lancaster University
Lancaster UK

Project in Building Tomorrow's Smart waste water systems in collaboration with Geoff Coulson and F.Taiani/Utz Roedig (CI, Lancaster), David Singerton (CI, Anglian Water). Total value (Lancaster): £92,161. Research output with original contributions in M.Phil thesis in publication section.

Computer languages and tools/skills used: Java, embedded C and framework development, wiringPi libraries, XBEE 868Mhz hardware and wireless protocol stack, source/sink programming, linux, quantitative and qualitative research, electronics prototyping, pywws framework, meteorology and weather data gathering, RSSI data gathering, data analysis, link quality estimator, modelling, subversion/git, design and development, report writing, gnuplot, LaTeX, dissemination of results via publication.

Student Employee
06/10 - 09/10
HM Government of Gibraltar - Procurement Department

Ward Clerk
01/03 -06/06
Gibraltar Health Authority - King George V Mental Hospital, Gibraltar

Ambulance Attendant
08/01 - 12/02
St John Ambulance Brigade, Gibraltar

Filing Clerk
06/01 - 08/01
Hispano Commerz Bank

IT Apprentice
05/00 - 12/00
Gibraltar Telecommunications Ltd

IT Apprentice
12/99 - 05/00
Innotech Ltd

EDUCATION

- **UDEMY - SpringBoot for Beginners**
  03/11/2019
  Cert No: UC-NNDX23FS

- **UDEMY - SpringBoot 2 & React Fullstack Development**
  10/11/2019
  Cert No: UC-AI9FFVMP

Master of Philosophy in Computer Science
University of Lancaster
01/12 - 06/17

- Research focus investigating long range reliable communications for wireless sensor networks in conjunctions with a third party water utility company Anglia Waters.
- Thesis is titled "Long Range Reliable Communications in Wireless Sensor Networks". This was a 3 hour defence of my theses which was successful and is currently published.
- This project has made four original contributions to the field which are as follows:
- Investigate what types of meteorological events causes link dropouts at the 868 MHz radio band.
- Devise a model to limit unnecessary link switching based on the previous findings.
- Develop and test a Link Quality Estimator model in Java that is able to predict and switch in a smart way when appropriate between an expensive link and a cheaper link.
- Develop a 5V Remote Terminal Unit prototype which has a smart way of using AI in switching pumps and test it under lab conditions. This will pave the way for utility companies to save money by saving energy and maintenance costs.

BSc (Hons) Computing awarded 1st class
University of Sunderland
09/08 - 06/11

- Started on a full time degree programme and learned a wide variety of topics within computing including software development and software engineering: I also learned the following scripting languages and programming languages:
  - BASH
  - Java
  - Python
  - Perl
  - Oracle 9g and PL/SQL
  - Final year project was based on a Java application that went through an agile process of software development - MediaStore v0.9.0.4 - https://mediastore.webhop.me

BSc Open Degree
The Open University
10/02 - 02/11

- Whilst working full time, I have developed an independent way of self learning to achieve a degree with The Open University. This degree is a blend of 16 maths, science and technology courses which accumulate to 305 learning credits. Due to that this degree overlaps with my full time whilst at Sunderland, I studied my last OU course (M362 Concurrent and distributed systems which covered Java EE edition and Tomcat web server) whilst I was away for a year in order to get some money and work experience. This ultimately led me to be selected for the postgraduate student researcher post at Lancaster University in 2012.

Certificate in Web Applications Development

The Open University
10/03 - 12/06

- Awarded this certificate that taught me through the entire process of web applications development from design, development to management of websites and web servers. I learned the following languages:
  - HTML
  - CSS
  - Javascript
  - ASP
  - VBScript
  - IIS web server
  - Coldfusion
  - PHP
  - MySQL
  - Analog and Apache web server monitoring and configuration
  - wireframing for rapid low fidelity prototyping for UI and UX evaluation

Certificate in Mathematics

The Open University
10/05 - 12/07

- Awarded a certificate in mathematics at level 4 that helped me gain the confidence and knowledge in degree level maths that will later help me in academia. The mathematics I studied are as follows:

- Discreet mathematical models
- Continuous mathematical models
- Statistics and applied statistics

Certificate in IT & Computing

The Open University
10/02 - 12/04

- Awarded a certificate in IT and computing that prepared me for further undergraduate studies in IT and computing.

2 A Levels Spanish A(oral with distinction) and Computing E
7 GCSE's including English Language with grade C

PROFESSIONAL BODIES

- **Associate Fellow of the Higher Education Academy**
  01/19 - 08/19
  University of Lancaster - Advance HE Number **PR171738**

- **Member of the British Computer Society (MBCS)**
  05/08/2011- 05/08/2012
  No: 990384868

PERSONAL INTERESTS

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- Long distance cycling for charity and leading rides as a Level 1 British Cycling ride leader.
- Learning new technologies and teach students from across a range of disciplines.

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- Understanding of new pedagogical technologies to teach students.
- Block chain technologies and crypto currencies.
- Artistic paintings, 3D art, abstract art.

RESEARCH INTERESTS

I have an interest in pedagogical research in computing and explore possible technologies that could be used in school code clubs to attract students to take computing as a subject. .

PUBLICATION

Linares, J 2017, '**Resilient control in long-range sensor and actuator networks**', MPhil, Lancaster University.

SOFTWARE PROJECTS AND PORTFOLIO

- **Personal website** http://joselinares.me
- Git hub code repository - https://github.com/jml246
- Remote My PC - Android app and java desktop client: Power management tool
- **Galgateweather -** http://galgateweather.hopto.org
  Weather service website displaying data collected from a local weather station.
- **Mediastore** final year Computing project - Java project application: http://mediastore.webhop.me
- **Nail technician website**. Built with PHP 5.7 on a LAMP stack. Web chat using Java Glassfish server on a raspberry pi and uses web socket technology - http://nailmaestro.com
- **SHARC** project - https://thesharcproject.wordpress.com/
- **Infocentral Mental health website** (abandoned) - A website built on PHP 4 in 2007. I built a bespoke CMS system for this site as a directory for counselling therapists in Gibraltar. Built when I was freelancing as a web developer before I started my fulltime studies at Sunderland University: https://web.archive.org/web/20090418181621/http://infocentral.podzone.org:80/