Jose Diez

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PERSONAL STATEMENT

Young, driven graduate passionate about mathematics and new technologies who has always been fascinated by intricate systems and their inner workings. Equipped with a skillset that makes for a flexible and reliable software engineer who can work with a wide range of modern technologies

EDUCATION

Coventry University, Coventry, United Kingdom — Sep 2013 – May 2016

Bachelor of Science (BSc.) in Computer Science
Modules include: *Intro. to Programming* (87), *Logic and Sets* (89) and *Comp. Systems and Networking* (82). Expected to graduate with a First class degree.

Sagrado Corazón, Vitoria, Spain — 2011 – 2013

First class degree in the Technical branch of the Baccalaureate program.

WORK EXPERIENCE

Owlstone Medical, London / Cambridge, United Kingdom — 2016 – Ongoing

Embedded Software Engineer

- Lead developer of a modular device control framework for scientific instruments
- Developed a system for automatic processing of calibration data, used in a manufacturing environment
- C, C++, Python, ZeroMQ

Qwertee, United Kingdom (Remote) — 2014

Part-time backend DevOps

- In charge of developing administration features for the back-office system.
- Maintaining legacy code and databases.
- Worked with full-stack JS (NodeJS, CoffeeScript) and MariaDB.

Coventry University, Coventry, United Kingdom — 2013 – 2016

Student Advocate

- Tasked with running key infrastructure at the Faculty of Engineering & Computing.
- Received training in Customer Service and acquired time management skills, required to compaginate part-time work with course studies.
- Designed and delivered introductory sessions for prospective students during Open Days, such as parametric CAD for 3D printing.

Student Proctor — 2013 – 2016

- Supported first year students through their assignments.
- Explained programming 101 concepts and algorithms.

PRACTICAL SKILLS

Software Development

C, C++, x86 Assembly: Able to write performant software for embedded systems. Experience developing scientific software.
Python, Go, Java, JavaScript: Expert in modern software stacks. Experienced in Agile methodologies, Test-Driven Development, Extreme Programming. Able to pick up new languages/frameworks very quickly.
MariaDB, MongoDB, Redis: Extensive experience working with relational and non-relational databases in performance-critical environments. Able to design and implement databases.

System Administration

UNIX: Knowledge of best practices in Linux/UNIX server administration. Ample experience in server commisioning and administration. Understands the importance of reliable backups. Lives and breathes in the command line.
Docker, Vagrant: Experience deploying applications in container environments.

Algorithms

Advanced theoretical and practical knowledge of essential computing algorithms like BFS, DFS, Dijkstra, Bellman-Ford, recursion, dynamic programming, Quicksort...

LANGUAGES

Spanish: Native language.
English: Fluent (speaking, reading, writing).
German: Intermediate (reading); basic (speaking, writing).

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PROJECT WORK

Open source presence 2010 – Ongoing

http://github.com/jdiez17 - A wide range of projects and open source contributions including web application development, compilers, assemblers, Vim plugins... Also contributed code to projects outside GitHub, such as Firefox.

MediaCrush 2013 – 2015

Python, Redis, Linux: Built a scalable video processing infrastructure as well as a modular back-end that serves millions of requests monthly on a tight budget. Responsible for managing a high-availability distributed system.

3D Printed Quadcopter design 2014

Designed a simple and cheap 3D printed quad copter frame. Implemented and fitted it with the relevant electronics: speed controllers, power distribution board, inertial measurement unit, etc. Learned about the software infrastructure behind several open source flight control packages, including Baseflight and ArduPilot.

ACHIEVEMENTS & INTERESTS

IEEE Xtreme 9.0 2015

Participated in IEEE Xtreme, a programming/problem solving challenge. Our group, KillDashNine, achieved the best score in the UK and finished 200/2000 in the global leaderboard.

Spanish Computing Olympiad 2012

http://p.jdiez.me (Spanish): *C++*, *Algorithms*: A blog about describing algorithms from scratch along with implementations in a variety of languages, explaining some of the more challenging problems in the Spanish Computing Olympiad.

3D Printing

Due to my interest in novel technologies and techniques, I spent some time researching 3D printers and eventually built a Cartesian-style bot. This lead to useful skills such as mechanical troubleshooting, 3D modelling and electrical engineering. After the first printer was operating correctly, I printed a Delta-arm-style printer, which was used used to 3D print a quad copter, among other useful and interesting mechanical machines.

REFERENCES All references are available upon request.