

Diego Russo | Principal Software Engineer

Cambridge, UK

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Proactive, innovative software development/engineering professional with over 15 years' expertise leading multiple global teams on technical projects aimed at software/application improvement, system enhancement, and process automation. Excellent cross-functional communicator and motivational team leader with proven success delivering solutions in alignment with business and stakeholder requirements. Highly motivated towards applying diverse experience in machine learning and product-driven environments. Adept at leveraging knowledge and experience in Python, software design, deployment, and technical support to improve business processes and drive operational excellence. Value-added skills in staff training, client/partner relationship management, compliance/design standard management, troubleshooting, presentation, Python, and Linux.

Career Experience

ML Group, Arm Ltd., Cambridge, UK

2020–Present

Principal Software Engineer/Staff Software Engineer

Technical Scope: Tech Lead, Python, Machine Learning, IP Evaluation, Inference Advisor, Software Quality.

Act as lead for Arm ML Inference Advisor project while coordinating technical operations and communications between ML and Arm teams. Design, code, and debug software. Identify areas for software improvements and implement fixes. Train personnel when required and ensure maintenance of existing software. Provide recommendations on technologies to boost productivity. Oversee technical projects and address software-related queries. Manage software performance and attend team meetings. Formulate solutions to current and potential issues. Previous project: IP Selection Sandbox for ML.

- Enabled client's opportunity to evaluate right IP for ML workloads.
- Established and grew Python Guild to over 700 members.

ISG, Arm Ltd., Cambridge, UK

2017–2019

Staff Software Engineer

Technical Scope: Jenkins/Pipelines, LAVA, Artifactory, Docker, Python, Bash, Linux, GitHub.

Led build, test, data representation, and validation automation infrastructure for company product. Liaised with multiple global teams and external partners. Monitored product development life cycle and outlined product requirements. Developed engineering system documents and design software. Provided detailed design specifications outlining functional requirements and architectural constraints. Implemented efficient coding practices and resolved software defects. Reviewed product specifications, system design, and protocol specifications. Reported on projects and issues. Contributed towards process improvement.

- Designed automated build and test infrastructure from scratch on real Cortex-A boards for custom Linux distribution.

DSG, Arm Ltd., Cambridge, UK

2013–2017

Staff Software Engineer

Technical Scope: Python, flask, bootstrap, AngularJS, MongoDB, Linux, svn/Git

Supervised and led eight-member team while managing Arm Compiler and OSS toolchains automation infrastructures. Ensured compliance with design principles while sharing knowledge, processes, and technologies with various teams. Hosted monthly forum to address stakeholder requirements. Acted as business representative on DSG infrastructures.

- Collaborated with GNU team on delivery of optimised GNU toolchain for Arm processors.
- Drove development of infrastructure for automated builds, tests, and benchmarks.
- Created application for triaging GCC test results, storing results in database in order for analysis and identification of root causes, patterns, trends, and automation of issue tracking using Jira.

Engineering IT, Arm Ltd., Cambridge, UK

2011–2013

Senior Software Engineer

Technical Scope: Python, MongoDB, RabbitMQ, Java, Jira, LSF, Perl, C, tcsh, bash, Linux, svn/Git

Contributed to multiple internal projects, including development of fault tolerant application which interacted with LFS cluster and AMQ server. Developed Jira plug-in aimed at interacting with internal software to enable synchronization of external and internal tickets. Maintained and enhanced internal IT systems.

- Planned and executed IT Early Career Scheme aimed at recruiting interns and graduates.

R&D, Forinicom Srl, Bastia Umbra, IT

2008–2011

Software/System Engineer

Technical Scope: Python/Django, PostgreSQL, Debian, XEN, PyQT, Git

Delivered innovative product in collaboration with research and development team. Executed operations on embedded systems which included OS/software customisation for authentication management. Developed solution aimed at managing hotspots. Created captive portal for management of authentication, sign up, session logs, remote device signals, and integration with management software. Designed software for network monitoring.

- Set up internet connection and enabled fast connectivity for rural areas, providing services to hundreds of clients.
- Designed and implemented hotspot system with captive portal and credit card payments for numerous tourists; system used at EuroPython in 2011.

Consorzio Miles, Servizi Integrati, Rome/Assisi, IT

2006–2008

Python/Django Engineer

Technical Scope: Python/Django, PostgreSQL, Linux

Delivered in collaboration with a team the replacement of paper-based manual processes with automated/digital processes. Maintained project in VB and led migration to Python/Django which enabled citizens to follow and update processes online and interact in real time with municipality.

Additional Experience

Opentaste Ltd., Global

Software Engineer, **Technical Scope:** Technical advisor, code review, Python, Flask, MongoDB

2013–2015

Remote, spare time project

Forinicom Srl., Bastia Umbra, IT

Objective-C Engineer, **Technical Scope:** Hotspot Captive Portal app, used at Europython 2011 in Florence

2011–05 / 2011–06

Contract

Exion Sagl, Manno, CH

Python Engineer, **Technical Scope:** Python, Django, PostgreSQL

2010–11/2011–01

Remote, Contract

Sauce Labs Inc., San Francisco, USA

Python Engineer, **Technical Scope:** Python, Pylons, GitHub

2010–10/2011–01

Remote, Contract

Wedoit Sas., Assisi, IT

SEO Engineer, **Technical Scope:** SEO, Python, PHP

2005–11 / 2006–05

Internship

Education

Master of Science in Computer Science (Security) IT: 110/110 cum laude — UK: First class honours

2021

University of Perugia, Perugia, IT

Thesis: **Pruning layers of a neural network with a heuristic-based approach.**

Bachelor of Science in Computer Science (Networking) IT: 102/110 — UK: 2:1

2006

University of Perugia, Perugia, IT

Thesis: Wireless Broadband Network/WeConnect project

Accountant programmer Diploma (Mercurio project) IT: 85/100 — UK: A

2002

Ministry of Public Education, Commercial Technical Institute, Federico Cesi, Terni, IT

Professional Training

Advanced Python Training

Arm Ltd., Cambridge, UK

2022

Learning Tree

C++ Programming for Embedded Systems

Arm Ltd., Cambridge, UK

2021

Doulos

Practical Deep Learning

Arm Ltd., Cambridge, UK

2020

Doulos

iPhone (iOS9) and Swift 2.2: **DipMatBeacon**

University of Perugia, Perugia, IT, App used to check the booking state of university rooms

2016

Udemy

MongoDB Administration and Developers training

Arm Ltd., Cambridge, UK

2015

MongoDB

Cryptography 1

Online

2014

Coursera

ITIL Foundation

Arm Ltd., Cambridge, UK

2013

ILX Group

iPhone (iOS4) and Objective-C

University of Perugia, Perugia, IT, Customised existent VOIP app

2011

Licenses

Radio-amateur class A license (Nr. 020122/AN)/ International callsign IZ00VB – C.I.S.A.R. Foligno's section – 2007

Affiliations

Publication: **The AES implementation based on OpenCL for multi/many core architecture**

ICCSA 2010, Sangyo Uni., Fukuoka, JP

EuroPython Conference: Volunteer/Attendee, Florence, Berlin, Bilbao, Rimini, Edinburgh, Online

2011 – Present

Languages

Italian: Fluent

Italian citizenship

English: C1

British citizenship

Spanish: C1