Lorenzo Bolla - Curriculum Vitæ

EMail | GitHub | StackOverflow | LinkedIn | Website
More detailed CV available here.

Experience

Google, SRE, Zurich CH, Mar 2022 – now

Automating myself out of a job.

Roche, Linux Software and Hardware Expert, Zurich CH, Dec 2020 – Feb 2022

Design, implement and maintain Debian-based operating system and infrastructure for diagnostic medical instruments. Involved in all stages of software development, from feasibility through design, development, testing, to maintenance. Deep experience with Debian-based operating system, packaging and software practices. Broad experience with DevOps practices, writing CI pipelines, testing across various hardware. Maintainer of Aptly.

YouGov, Senior Software Developer, London UK, Aug 2013 – Dec 2020

Design and implement scalable analysis software for market research analysis using Python, Rust, Cython, MongoDB, PostgreSQL. Development of an in-memory column-oriented distributed DB to efficiently store and query tabular data. Lead junior developers, ensure best practices and code quality, automate deployments and continuous delivery.

YouGov, Director of DevOps, London UK, Aug 2015 – Jun 2020

Lead the DevOps team, to improve automation of development processes. Manage the migration from legacy to state-of-the-art infrastructure, based

on GitLabCI, Docker and Kubernetes. Responsibilities include soliciting project ideas, setting priorities and scheduling projects. 25% time position dedicated to this role; remaining 75% Lead Python Developer.

RAID Research Services LLP, Senior Software Architect, London UK, May 2012 – Aug 2013

Design and implement scalable analysis software for finance using mainly Python, Pandas, MySQL and ExtJS. Implementation of an in-memory DB to efficiently query tabular data. Parsing of unstructured data sources and categorization using simple machine learning techniques.

Artirix Ltd, Senior Software Engineer, London UK, Apr 2012 – May 2012

Design and implementation of highly scalable web search crawlers using Python and Twisted.

Zugo Ltd, Senior Python Developer, London UK, Apr 2011 – Apr 2012

Develop massively scalable web applications (using Python, Tornado, MySQL, MongoDB, nginx on the back-end and HTML, Javascript, CSS on the front-end). Experience in distributed data analysis using MapReduce frameworks (mainly Disco), NoSQL data stores (mainly MongoDB) and AWS solutions.

Geneity Ltd, Software Engineer, London UK, Aug 2008 – Apr 2011

Software engineer of high-performance E-gaming web applications (mainly working with Betfair, Coral, Ladbrokes and others betting companies). Focus on high performance fund transfers.

Previous jobs

- Pirelli & C SpA, Optical Designer, Milano IT, Jun 2005 – Aug 2008

- TELE System Electronic Srl, Software Engineer, Vicenza IT, Mar 2005 – Jun 2005

- Photon Design Ltd, Software Engineer, Oxford UK, Apr 2003 – Apr 2004

- Progetto Mantegna, Technical Support, Padova IT, May 2001 – Apr 2003

Education

University of Udine - Italy, PhD, Nov 2002 – Nov 2005

Thesis on the numerical solution Maxwell equations in periodic dielectric devices.

University of Padova - Italy, Telecommunication Engineering, Sep 1996 - Mar 2002

Publications

Author of "Numerical Methods for Integrated Optics", ISBN 978-3-639-51669-2.
Technical reviewer of 3 more books on computer programming.
Author or Co-author of 10+ articles on peer-reviewed journals.
Author or Co-author of 10 international patents in the field of integrated optics.