

Ricardo Newbery

Software Engineer / Architect / Manager

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INTRO

Software engineer, teacher, architect, and manager with a deep background in Python-based solutions along with a strong proficiency within an eclectic range of non-Python technologies. An open source software community member since 2005, presenter at conferences and contributor and release manager for multiple open source projects

HISTORY

Principal Engineer, Vectra AI (Boston, 2019-2023)

Cybersecurity company providing an industry leading hybrid AI-driven behavior-based and signature-based intrusion detection and response solution for both on-premise and cloud networks. As the Principal Software Engineer for the Data Science division, I guided the adoption of best practices and improved the developer tooling and testing. I also helped design and develop Vectra's recent expansion into detection and response capability within cloud networks.

Senior Engineer, Quantopian (Boston, 2018-2019)

Fintech company building an investment platform, software tools, and libraries for quantitative finance. Company acquired by *Robinhood*.

Director of Engineering, liwwa, Inc (New York, 2017-2018)

Fintech startup focused on SME financing in the Arab World. Responsible for process improvement, development team management, and advising the CTO on best practices. Company relocated to Jordan.

VP of Web Engineering, nCrypted Cloud (Boston, 2013-2017)

Tech startup providing a suite of native clients and web services providing secure collaboration services. Responsible for designing and managing all aspects of the company's web presence and api services. Built and managed development teams, improved process, and managed projects.

Software Architect, Rue La La (Boston, 2012-2013)

Members-only shopping site in the fashion flash sales space. Responsible for the architecture of a new commerce platform replacing the company's legacy platform, process improvement, and developer mentoring.

Senior Software Engineer, CIDC (Cambridge, MA, 2010-2013)

Cambridge Interactive Development Corporation was a 200-employee company providing software and services for several European and Asian gaming operations. Served as technical lead for CIDC's Web Development Group and member of CIDC's Enterprise Architecture Group.

Principal, @digitalmarbles (2006-2023)

Sole proprietorship providing software engineering and consulting services with an emphasis on content management systems and high performance delivery platforms. Also providing technical writing services and engaging the open source community.

CTO, Digital Visions (San Diego, CA, 1995-2006)

Founder and chief technical officer for a web development and technology consulting group assisting organizations and companies to achieve and maintain an effective web presence.

Physics Instructor, Cuyamaca College (El Cajon, CA, 1994-2006)

Developed course curriculum and taught college physics and information systems.

Physicist, CSC and NRaD (San Diego, CA, 1991-1996)

Worked with *Computer Sciences Corporation* (CSC) and *Naval Research and Development* (NRaD) to conduct research and development of fiberoptic-based spectroscopy systems for the characterization and remediation of toxic waste sites.

B.S. in Physics, SDSU

M.S. in Physics (ABT), SDSU

WORKS

"Introduction to *zc.buildout*", *Donetsk Python 2013, Ukraine*.

"*Stupid Buildout Tricks*", Plone Conf. 2011, San Francisco, CA.

"*State of Plone Caching*", Plone Conf. 2010, Bristol, UK.

"*CacheFu and plone.app.caching*", World Plone Day 2010, Cambridge, MA.

"*Practical Plone 3: A Beginner's Guide to Building Powerful Websites*", V. Williams, R. Newbery, et al. Packt (2009).

"*Web Performance Optimization Strategies*", COWPU 2009, Bend, OR.

"*Theming with Deliverance*", PU.Camp 2008, Bend, OR.

"*Development of a Cone Penetrometer Deployed Solvent Sensor Using a SERS Fiber Optic Probe.*", P.A. Mosier-Boss, R. Newbery, et al, *Analytical Spectroscopy* (1997).

"*Versatile, Low-Volume, Thin-Layer Cell for in Situ Spectroelectrochemistry.*", P.A. Mosier-Boss, R. Newbery, et al, *Analytical Chemistry*. 68, 3277-3282 (1996).

"*Fluorescence Rejection in Raman Spectroscopy by Shifted-Spectra, Edge Detection, and FFT Filtering Techniques.*", P.A. Mosier-Boss, R. Newbery, et al, *Applied Spectroscopy*. 49, 630-638 (1995).

"*Fiber Optic Fluorometer Based on a Dual Wavelength Excitation Source.*", G.A. Theriault, R. Newbery, et al, *Proceedings SPIE Vol. 1796, Chemical, Biochemical and Environmental Fiber Sensors IV*.