Alan Richmond

**Scientific Systems Programmer ex-NASA, Hubble Space Telescope**

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**Seeking position as computing lecturer, or software trainer in Python/WordPress/Linux;**

**other rôles (e.g. development) considered only in scientific applications.**

**Summary**

1. **Skills**: Scientific Systems Programming, Software Engineering, Ubuntu Linux, Blogging with WordPress, Lecturing
2. **Programmer**: Python, C, Perl, Fortran, etc.
3. **Blogger**: [Computing.Guide](http://computing.guide/), [Python3.Codes](http://python3.codes/), [FractalArt.Gallery](http://fractalart.gallery/), [Tuxar.uk](http://tuxar.uk/) using WordPress & HTML
4. **Scientific Systems software** developer for [NASA GSFC](https://heasarc.gsfc.nasa.gov/), [Hubble Space Telescope](http://www.stsci.edu/portal/),[ESA/ESO](http://www.stecf.org/), [ESRF](http://www.esrf.eu/), [JET](https://www.euro-fusion.org/jet/), [Max Planck IPP](http://www.ipp.mpg.de/2285/en)
5. **Software Engineering** for user interface, database, real-time control & data acquisition
6. **Entrepreneur**: founded 4 businesses, sold 2 ([WDVL](https://web.archive.org/web/20111126234959/http://wdvl.com/) & [Curious Minds Science Shop](http://www.curiousminds.co.uk/))
7. **Teacher/Lecturer**: [PGCE](http://www.gold.ac.uk/pgce/secondary-science/)/QTS, taught GCE sciences & Computer Science A-level, lectured & published [papers](http://tuxar.uk/alan-richmond/academic-publications/) on software & web design at conferences & organisations
8. **E-commerce**: [Curious Minds Science Shop](http://www.curiousminds.co.uk/) with [OpenCart](http://www.opencart.com/) & MySQL, SEO, Google AdWords
9. [**ZEEF**](https://zeef.com/)**curator**: [Python](https://python.zeef.com/alan.richmond), [Computer Science](https://computer-science.zeef.com/alan.richmond), [Open Source Software](https://open-source-software.zeef.com/alan.richmond), [Fractals and Mathematical Art](https://fractals-and-mathematical-art.zeef.com/alan.richmond), [Alan Turing](https://alan-turing.zeef.com/alan.richmond), [Hacking](https://hacking.zeef.com/alan.richmond)
10. **Education**: BA 2.1 Mathematics & Physics, Open University; BSc 3rd Physics & Mathematics, London; PGCE Science, Goldsmiths London.

**Education**

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| **Open University** | **Goldsmith's College, London** | **Queen Elizabeth College, London** |
| Dec 1975 – Dec 1978  BA  Maths & Physics   2.1  Hons | Sep 1973 – Jul 1974  PGCE  Science | Oct 1969 – Jun 1972  BSc  Physics & Maths 3rd Hons |

**Employment History**

**Computer Science Blogger, Self unemployed**

June 2013 – Now Bridgend, South Wales

Took a break after selling previous business. Blogging on Python3.codes, Tuxar.uk, FractalArt.Gallery, Computing.Guide

**Founder and Technical Manager, Curious Minds Science Shop**

August 2004 – May 2013 Hereford , United Kingdom

Created Curious Minds. Developed & maintained website using osCommerce & OpenCart. Selected, priced, & added new products. Created graphics, took product photos. Promoted with Google AdWords, magazine ads. Developed new products. Customer technical support. Warehouse operations. Negotiated sale of business

**Managing Editor of EncycloZine, Self-employed**

March 1999 – September 2010 Charlottesville, VA, United States

Editor & webmaster. Development of EncycloZine - a concise illustrated on-line encyclopedia (pre-Wikipedia). Wrote & commissioned articles on educational topics. Developed maintenance utilities, style sheets, & other web support. Integrated XML feeds. Promoted with Google Adwords & SEO

**Managing Editor of Web Developer's Virtual Library, internet.com**

March 1998 – March 1999 Charlottesville, VA , United States

Operated WDVL.com - one of the web's most popular web developer sites. Wrote & commissioned articles on web development. Coordinated remote staff & authors from home office. Liaised with head office in Westport, CT. Grew site's monthly page views from 1 to 3 million, increased ad revenue.

**Web Consultant, Editor and Webmaster, Self-employed**

February 1995 – February 1998 Washington, DC , United States

Designed & built web sites for clients. Founded Web Developer's Virtual Library (WDVL.com). Wrote & commissioned articles on web development. Developed content, maintenance utilities, style sheets, & other web support. Presented HTML & CGI tutorials at many conferences. Sold WDVL to Mecklermedia (now internet.com).

**Principal Systems Engineer, NASA Goddard Space Flight Center**

March 1993 – August 1995 Washington, DC , United States

Developed an interactive web site to query astronomical satellite data & deliver products (e.g. images). Developed a prototype web site for the Starchild proposal to NASA, to help children ages 7-14 begin to learn about the universe. Group leader for 6 programmers. Monitored their technical performance; reviewed deliverables & enforced standards.

**Head of Data Acquisition Group, European Synchrotron Radiation Facility**

November 1990 – March 1993 Grenoble , France

Allocated & monitored tasks of 4 programmers. Developed GUIs for beamline experiments. Implemented software & documentation standards. Founded Software Practices Group & led development of General Programming Standards.

May 1990 November 1990 UK Unemployed

**Senior Software Systems Engineer, Space Telescope Science Institute**

August 1988 – May 1990 Baltimore, MD , United States

Developed user interfaces for HST scientific operations. Enhanced the Proposal Entry Processor software, e.g. addition of Solar System Target List. Wrote HST Resource Usage Tool. Liaised with European colleagues.

**Senior Software Systems Engineer, Space Telescope European Coordinating Facility**

July 1985 – July 1988 Garching, Munich , Germany

Developed user interfaces for HST scientific operations, e.g. to allow astronomers to browse Archive & request images. Led ESO WG on software standards & the European Space Information System (ESIS) WG on UI Requirements.

**JET Software Consultant, Max Planck Institute for Plasma Physics**

February 1983 – July 1986 Garching, Munich , Germany

Designed & developed user interfaces & control & data acquisition software for plasma diagnostics; installed & commissioned at JET (which was the world's largest magnetic confinement fusion experiment).

**Software Consultant, Tractebel**

April 1979 – May 1983 Culham , United Kingdom

Extended display management, database, & monitoring systems for nuclear power stations. Transferred to **JET**, Culham, to design & develop real-time & interactive components of the control & data acquisition database.

**Demonstrator / Research Associate, Loughborough University Dept of Engineering**

March 1978 – March 1979 Loughborough , United Kingdom

Assist students and staff in the Department of Engineering Mathematics.

**Scientific Analyst, Wimpey Laboratories**

September 1975 – February 1978 Hayes , United Kingdom

Supported users, specified requirements, designed, documented & programmed civil engineering applications. Constructed laboratory database systems, e.g. off-line storage of test results for plotting.

**Science Teacher, London Borough of Merton**

September 1974 – August 1975 Wimbledon , United Kingdom

Taught GCE Physics and Chemistry, and A-level Computer Science for which I was wholly responsible.