

# TIGRAN AIVAZIAN

<https://github.com/tigran123>

## Experience

**Bibles.org.uk**

*Self-employed*

London, UK

Sep 2006 – Present

- ✦ Self-employed, providing Linux consultancy, writing opensource and scientific software, research in theoretical physics and AI/ML fields

**Symantec (VERITAS)**

*Senior Linux Kernel Architect*

London, UK

Apr 2000 – Sep 2006

- ✦ Developed `libtcpdump` — extremely efficient TCP packet capturing engine
- ✦ Made Linux kernel improvements which benefited VERITAS
- ✦ Taught Linux kernel internals
- ✦ Developed from scratch an embedded OS (VxOS) based on the Linux kernel
- ✦ Maintained Linux kernel debugging infrastructure for VERITAS products

**Santa Cruz Operation (SCO)**

*Senior Escalations Engineer*

London, UK

Mar 1998 – Apr 2000

- ✦ Fixed bugs in SCO UnixWare kernel as a senior member of Kernel Escalations Group
- ✦ Developed a Linux distribution *SCO Linux*

**DST International (HiPortfolio)**

*Software Engineer*

London, UK

Jun 1994 – Mar 1998

- ✦ Ported a large financial application (HiPortfolio) from MS-DOS to many flavours of Unix, including: IBM AIX, Sequent DYNIX/ptx, SCO Unix, Digital OSF/1, SunOS, Solaris
- ✦ Developed extensions of MF COBOL RTS in C: reliable signal handling, low-level ACID-compliant TP engine, virtual shared terminal

## Projects

- ✦ **Sigma AI** – <https://sigmaai.ai> (Python, Streamlit, SQLite) – The first multi-model AI chat web application, similar to ChatGPT, but with many extra/advanced functions. I was invited by Oxford University to present Sigma AI as part of their AI course: <https://conted.ox.ac.uk/tutors/27519>
- ✦ **Linux kernel contributions**: BFS Filesystem ([https://en.wikipedia.org/wiki/Boot\\_File\\_System](https://en.wikipedia.org/wiki/Boot_File_System)), Intel Microcode Update driver, various SMP improvements (<http://www.groklaw.net/article.php?story=20031210111235600>), iBCS2, `/proc/kcore`, BCP (Boot Command Processor), etc.
- ✦ **Urantia Book Explorer** – <http://urantiaexplorer.org> (PHP, jQuery, CSS) – The fastest search engine for researching the texts of *The Urantia Book* in over 20 languages
- ✦ **Kindlepdfviewer (Koreader)** – <https://github.com/koreader/kindlepdfviewer> (Lua, C) – Wrote DjVu support for various eInk devices; I am one of the Koreader maintainers <https://github.com/orgs/koreader/teams/maintainers>
- ✦ Python programs using matplotlib, scipy, numpy and PyFFTW for Spectral Split Propagator solver of Quantum Mechanics equations, see the github repository: <https://github.com/tigran123/quantum-infodynamics>

## Skills

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Linux kernel, C, Python, x86 ASM, Streamlit, L<sup>A</sup>T<sub>E</sub>X, PHP, JavaScript/jQuery, CSS, MySQL, SQLite, Pandas

## Education

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Yerevan State University (USSR)

Yerevan, Armenia

Master of Science (×2)

Sep 1988 – Jul 1993

- Director of Studies: Prof Armen V. Sarkissian (the same who became the Primer Minister and then President of Armenia)
- Two major specialisations: General Relativity (MSc in Theoretical Physics) and Operating Systems (MSc in Computer Science)
- Thesis: “Computer simulations of thermonuclear burning on the surface of an accreting neutron star”

## Publications

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- T. Aivazian, “Covariant Nonlocal Statistical Mechanics”, 2018, [https://www.researchgate.net/publication/327974621\\_Covariant\\_Nonlocal\\_Statistical\\_Mechanics](https://www.researchgate.net/publication/327974621_Covariant_Nonlocal_Statistical_Mechanics)
- T. Aivazian, “Quantum Mechanics in “Kinematic” Representation”, 2018, <https://www.researchgate.net/publication/327720963>
- T. Aivazian, “Extended Hilbert Phase Space and Dissipative Quantum Systems”, 2017, <https://arxiv.org/abs/1702.07746>
- T. Aivazian, “On the link between Shrödinger and Vlasov Equations”, 1996, <http://arxiv.org/abs/gr-qc/9606009>
- T. Aivazian, “Cosmological Solution To Einstein-Vlasov System”, 1996, <http://arxiv.org/abs/gr-qc/9605045>
- T. Aivazian, “Linux Kernel 2.4 Internals”, This book of mine was translated (by others) into several languages and was cited in many standard textbooks on the operating systems, e.g. Deitel/Deitel: <http://www.tldp.org/guides.html#lki>
- T. Aivazian (ed.), The British Study Edition of the Urantia Papers: <http://www.bibles.org.uk/study-edition.html>
- T. Aivazian (ed.), Classical Armenian Bible: The Zohrab Bible, 2019. On Amazon: <https://www.amazon.co.uk/Classical-Armenian-Bible-Zohrab/dp/1326866702>
- Jesus: A New Revelation, 2024. Edited and typeset by T. Aivazian. Available on Amazon: <https://www.amazon.co.uk/Jesus-New-Revelation-Multiple-Authors/dp/B0CSK2JY2H>
- A.S. Eddington, “Mathematical Theory of Relativity”, 2022, 3<sup>rd</sup> Ed. with a Foreword by T. Aivazian. [https://www.researchgate.net/publication/359259146\\_Mathematical\\_Theory\\_of\\_Relativity](https://www.researchgate.net/publication/359259146_Mathematical_Theory_of_Relativity)
- T. Aivazian, “Geometrical Nature of Mass and the Fifth Dimension of Kaluza-Klein Theory”, 2000, <http://www.bibles.org.uk/articles/T.Aivazian-Geometrical-Nature-of-Mass.pdf>
- T. Aivazian, “The Higher Dimensions of Space: From Einstein to Jesus”, 2012, <http://www.bibles.org.uk/articles/T.Aivazian-The-Higher-Dimensions-of-Space.pdf>
- T. Aivazian, “On the Meaning and Value of Music”, 2019, <http://www.bibles.org.uk/On-the-Meaning-and-Value-of-Music-2019.pdf>
- See many other publications at: <http://www.bibles.org.uk/books.html>