

Steve Landers

Experienced systems architect, software designer, computing and data scientist, consultant and tech leader helping diverse organisations on the road to commercialisation

- a catalyst to assist teams reach their potential
- practical application of new ideas
- applying innovative technology to automate business processes
- combining the best of Open Source and proprietary solutions

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Experience

- Senior Vice President Software Design and Development at USA startup [6MC Health](#)
- Co-founder of [Fidelig Audio](#), an Australian HiFi company designing and producing high-end music server and streamer devices for audiophiles
- Consulting and technology strategy with businesses in mining / IoT technology
- Consulting and technology strategy with USA medical device business
- Member of the Tcl programming language [Core Team](#) (governance board)
- Principal of [Digital Smarties](#), a specialist IT design studio serving diverse industries in North America, Europe, Australia and Asia
- Research consultant with Chicago based [Iomas Research](#), collaborating on a series of R&D projects involving online educational technologies, informatics and cloud systems
- Research consultant to the USA National Museum of Health and Medicine, tech lead on the [Einstein Brain Atlas](#) and [AnatLab Virtual Anatomy Laboratory](#) projects
- CTO of Chicago based startup [Keepsayk](#) which produces apps for photo and memory sharing via mobile devices
- CTO of Chicago based startup [Iconicast](#), inventor of the world's first continuous matrix of human emotion iconography
- Co-founder Functional Software, an Australian tech company that pioneered automated management of Unix systems

- Systems consultant to the R&I Gold Bank
- Systems consultant to the Fremantle Port Authority
- Senior Research Fellow at Murdoch University
- R&D Manager at Olivetti Technology Park
- Senior Computing Specialist at Esso Australia

Achievements

- Board member and SVP of 6MC Health, a USA Healthcare startup designing and developing an automated platform to perform comparative hospital performance analysis using data-mined US public health records
- Technical lead of the Einstein Brain Atlas team that developed a cloud-based streaming virtual microscope system to allow viewing of Einstein's neuroanatomy
- Technical lead of the AnatLab online Virtual Anatomy Laboratory project
- Invented a technique to generate photorealistic structure-specific interactive anatomical reconstructions from anatomical sections
- Member of the Visible Embryo Project, a multi-institutional, multi-disciplinary research project for the development of distributed bio-structural databases
- Holder of multiple patents covering a broad range of technologies
- Speaker at international conferences, including the Tcl and SQLite conferences
- Maintainer of the TcLer's Wiki - the world's second longest running wiki
- Co-developer of automated 911 telephone exchange test system for Southern California in the 2000s
- Past Vice President of the Australian Unix Users Group
- Co-developer of cross-platform system management software products in the 90s
- Installed and managed the first commercial Unix + Oracle installation in Australia (and one of the first in the world) at Esso Australia
- Installed the first general purpose networked computing terminals offshore on Bass Strait oil and gas production platforms

Skills

- Software architecture
- Software design and implementation
- Data science and analysis
- Interface and interaction design (UI/UX)
- Translation of non-technical user requirements into the delivery of functional software
- Technology and business process evaluation and implementation
- Software project definition and management
- Specialist in graphical cross-platform applications combining proprietary and open source technology
- Desktop, server, mobile and embedded application design and development
- Extensive practical experience in systems, networking, security and database technology

Professional Reference – Jim Kite August 2022

I have known Steve Landers for over 30 years, starting with our work at Esso Australia. We were part of a small team that managed many of the IT systems for Bass Strait operations, based in Sale, Victoria. We both gravitated to Perth at similar times where we both continued our IT careers.

There are very few people like Steve these days. He comes from deep and broad expertise in computer systems, focused mainly around Unix / Linux operating systems and the entire Unix landscape. A strongly technical person, Steve's knowledge and capability embraces both software and hardware aspects. He is unique in maintaining both deep development skills and high level architectural capability at both application and network levels. In my own experience at some of the major corporations in Perth, I believe there are very few people that understand this, much less actually do it.

From his early technical and mathematical base, he has substantially broadened his skills and experience in technical start-ups, including patent protection. This background makes Steve an incredibly valuable asset to organisations that are contemplating new systems or attempting to analyse existing systems as an initial step towards business improvement in the digital environment.

If you know a business or organisation that wants to advance their digital systems then I recommend that they ask Steve to review their needs and their existing approach, and propose the next steps for moving forward. I am confident that Steve will provide them with an economical and reliable strategy - and solution if requested - and likely solve other underlying issues along the way.

Jim Kite 0410 519 141 jim@jmkite.net

Referees

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Patents

[Automated communications response system](#)

US 12,301,765 B2 · Issued May 13, 2025

The Skybot system pioneered the exciting world of mobile intelligent assistant technology (family of three patents)

[Mobile supercloud computing system and method](#)

US 2021/0377182 A1 · Issued Dec 2, 2021

The mobile supercloud system improves upon synchronization and sharing of data over the cloud using resources of multiple cloud services together with the computational and storage resources resident mobile devices

[Method and system for emotion tracking, tagging, and rating and communication](#)

US 9,207,755 B2 · Issued Dec 8, 2015

The first continuous matrix of images representing human emotion, allowing users to share and track emotional states or an aggregator to calculate the emotional temperature of a location or group of people

Education

Bachelor of Science in Computing Science and Applied Mathematics
1977-1980
University of New South Wales, Sydney, Australia

Presentations and publications

Authored or co-authored over 20 papers covering augmented reality, medical visualisations, automated responses, cryptography and more. Presented at numerous local and international conferences. Web links to presentations and papers are available via the professional profile page at <https://digitalsmarties.com/steve>

CloudTk - The Holy Grail of Tk Deployment

Presentation to the 2021 SQLite and Tcl Conference

[Converting a computation intensive Tcl application to leverage multiple CPU cores](#)

Presentation to the 2020 SQLite and Tcl Conference

[A Tcl-based Kanban board for Fossil tickets](#)

Presentation to the 2016 EuroTcl conference, Eindhoven, The Netherlands

[The Evolution of the TcLer's Wiki](#)

Presentation to the 2016 EuroTcl conference, Eindhoven, The Netherlands

[The Power Behind Einstein's Brain](#)

Presentation to the 2013 EuroTcl conference, Munich, Germany

[Automated system for on-demand generation of photorealistic structure-specific interactive anatomical reconstructions](#)

The FASEB Journal. April 21, 2012

[A History of Tcl in the Browser](#)

Eighteenth Annual Tcl/Tk Conference 2011 Manassas, Virginia, USA

[Augmented Reality, Google Earth and Tcl/Tk](#)

Seventeenth Annual Tcl/Tk Conference 2010 Chicago, Illinois, USA

[WubTk-Tcl/Tk Apps Anywhere](#)

Seventeenth Annual Tcl/Tk Conference 2010 Chicago, Illinois, USA

[The BioNetLab Anatomy Collaboratory](#)

The FASEB Journal, April 27, 2010

[Two key Stargus technologies - secure authentication and shared storage](#)

Sixteenth Annual Tcl/Tk 2009 Portland, Oregon, USA

[The use of Tcl/Tk in the AnatLab Virtual Anatomy Laboratory](#)

Sixteenth Annual Tcl/Tk Conference 2009 Portland, Oregon, USA

[The Skybot Automated Communications Response System](#)

Fifteenth Annual Tcl/Tk Conference 2008 Manassas, Virginia, USA

[AnatLab: A Web-based Virtual Anatomy Laboratory](#)

Fifteenth Annual Tcl/Tk Conference 208 Manassas, Virginia, USA

[dotNyet - Web-based Distributed Application Deployment of Stand-alone Applications](#)

Fifteenth Annual Tcl/Tk Conference 2008 Manassas, Virginia, USA

[Entice – Embedding Firefox in Tk](#)

Thirteenth Annual Tcl/Tk Conference 2006 Naperville, Illinois, USA

[Cryptkit – A Cryptographic Extension for Tcl](#)

Twelfth Annual Tcl/Tk Conference 2005 Portland, Oregon, USA

[Klant - A Server-Managed Client Framework for Tcl/Tk](#)

Eleventh Annual Tcl/Tk Conference 2004 New Orleans, Louisiana, USA

[Beyond TclKit - Starkits, Starpacks and other *stuff](#)

Ninth Annual Tcl/Tk Conference 2002 Vancouver, British Columbia, Canada

[Critcl - Beyond Stubs and Compilers](#)

Ninth Annual Tcl/Tk Conference 2002 Vancouver, British Columbia, Canada

News Articles

[Up close and personal with Albert Einstein's brain](#) NPR News

[Einstein's Brain Goes Digital With iPad App](#) Wired

[Einstein's brain is now interactive](#) Sydney Morning Herald

[Slides of Albert Einstein's brain available on iPad app](#) CBC Canada