

Raymond Luckhurst – Software Developer

LAMP & application development • user interfaces • scripting • low-level programming

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Education

B.Sc. Electrical & Electronic Engineering, Bristol. HNC Electrical, Electronic, Communications & Computer Eng., Cheltenham. Courses in OO, methodology, telecoms, web design... Sun Certified Java Programmer.

Current Position

Running own consultancy, Scriptit Ltd.

February 2006 – present

Mostly bespoke application programming and full stack web development: custom software apps, web server-side and front-end coding, automation scripting, multimedia processing, general programming. Projects include:

- Tribal Signs: custom PrestaShop module for lettering signage. A web form is used to design and price jobs with options for multilines, orientation, justification, spacing, curves, effects, glyph picker. Delivers font-subset EPS files for vinyl cutting. Lettering engine coded in PostScript for accuracy. Developed complex algorithm for optical kerning of any font and a TTF to PostScript font converter. Also UX help and back office screens & details. See [Tribal Signs Lettering Designer](#) and p3.
Technologies: LAMP, jQuery/UI, JSON, TCPDF, Ghostscript, ImageMagick. Own OS code on [GitHub](#).
- Tribal Signs: custom PrestaShop module for integrated label invoices (with peel-off addresses) which show product customisations and neatly presented order details across multiple PDF pages.
- Toccata Classics: Record Label IT support, from 2008–14. Website extensions and maintenance, new database schema, digital download delivery, cart and special offers, taxonomy, B2B support. Developed workflow scripts for ripping CDs, unpacking DDPs, creating and tagging FLACs & MP3s, database metadata ingest, CD booklet PDF transforms for web & iTunes, and much more...
Technologies: LAMP, jQuery, shell scripts, Open Source (cdparanoia, cdrdao, ffmpeg, flac, sox, lame, xld, ImageMagick, pdftk...), PayPal IPN. See [RecordLabelServices.pdf](#) and screenshots, p4.
- Red Sound: programmer GUI and USB device driver for *SoundBITE Pro* DJ loop sampler. A cross-platform application with drag-and-drop of WAV loops between PC and unit, loop arranging, parameter setting, audio sampling. Includes Help screens, User Guide, Windows & Mac installers.
Technologies: C++, wxWidgets, DialogBlocks GUI builder, Open Source (libsamplerate, libsndfile, libusb...), Xcode, Cygwin. See [redsound.com](#) and screenshots, p5.
- Red Sound: programmer GUI and MIDI device driver for *SoundBITE micro* audio/MIDI synchroniser.
Technologies: Objective-C, Xcode, OS X, Cocoa, MIDI SysEx, Open Source (PortMidi). See p5.
- Many websites requiring custom server-side programming, including:
 - [havergalbrian.org](#) – data-driven, PDF newsletter headline harvesting, in-place content editing, easy database interface, Digest Authentication. Custom CMS, responsive, Pure.css framework.
 - [freshturf.co.uk](#) – developed turf area calculators, palette delivery pricing for quantity/postcode, Barclaycard ePDQ and other payment interfaces. CMS Made Simple (UX by others).
 - [spiceshuttle.co.uk](#) – interesting delivery-only takeaway site (defunct); ASP.NET/C# & IIS, ePDQ.Technologies: LAMP, PDO, CSS, jQuery, AngularJS, Smarty, mod_rewrite, Photoshop etc. See p7.

Last Position

Subcontractor, UBS Bank, London

March 2003 – February 2006

Hired as a GUI specialist. Developed GUI components and extensions for a risk management pricing application using Java Swing, with custom UI delegate behaviour and MVC architecture. Widgets: TierSheet – a feature-rich spreadsheet-style tabbed tree-table with sorting, filtering, highlighting, totalling, formatting, printing and more, maximizing viewing data of interest; BrickPane – a JSplitPane with multiple splits, dynamically configured, MDI-capable, with custom layout manager; Enhanced JTable – generic extensions including a TableRowModel, formatting, sorting, filtering and highlighting (Tcl & regex expressions); Excel bridge: layered models for formatted export (DCOM, J-Integra) with drag & drop. Many smaller components. State and user preference persistence (XMLEncoder, Preferences API). Dynamic LaF/skin support. Documentation. Windows. See screenshot, p6.

Previous Positions

Subcontractor, Sony BPE, Basingstoke

Jan – Nov 2002

Developed a video transform GUI, device drivers and a bridging interface for a Digital Media Asset Management System using Java APIs and Swing, used for controlling custom ASIC hardware on PCI bus and digital video equipment via Java/DCOM. Also a server-side wrapper for a transform service via ASP and DirectShow, and a Finite State Machine for video transforms. Windows and Sun/Solaris.

Subcontractor, Dresdner Kleinwort Bank, London

May 2000 – Aug 2001

Client-side: Developed two Market Conformity GUIs (Java Web Start apps) using Java Swing: a Filtered Trade Viewer and a Filter Manager. Data-driven configuration from Sybase stored procedures. Multi-threaded caching interface to trade data via CORBA. Contextual help, illustrated user guides, project intranet Wiki website, implementation manual. Solaris and Windows.
Server-side: Re-modelled the CORBA data feed for multi-threading and optimization via JDBC to Sybase.

Subcontractor, B Sky B, London

Aug 1999 – May 2000

Developed the Service Management Console GUI for Sky Text using Java Swing, used to define and control the broadcast service in terms of page hierarchy, content mappings and media assets. Drag & drop adapter for 'rubber-band' linking related nodes; asset viewer; message console; charts. Also developed the XML element definition model and back-end blob objects. EJB interface to Oracle database and WebDAV repository. Documentation. Windows. See screenshot, p6.

Subcontractor, Press Association News Centre, London

Aug 1998 – Aug 1999

Developed the Content Editor GUI for Digital Teletext using Java Swing. Features include WYSIWYG styled editing of multi-line text and tabular content with rich word-processing capabilities and drag/drop linking. HTTP interface to Informix database via Perl DBD driver. HTML-Swing conversion using JavaCC parser. Javadoc, jjdoc and integral user guide. Windows and Solaris. See screenshot, p6.

Further

Earlier permanent jobs in Fixed Wireless & GSM telecoms, telemetry & SCADA, and microcontroller projects, for Nortel Networks, NEC, Schneider Electric – mostly C++ and C. Also automotive electronics.

An experienced implementer with strong attention to detail and a proven track record. Fully equipped home office for cross-platform, versioned (git) development. Agile approach.

Aside: DipABRSM Piano Performers' Diploma; Grade 8 Organ distinction.  Music CV

12 June 2021

[project screenshots follow...](#)

See it in action at <https://www.tribalsigns.co.uk/shop/custom-lettering/72-custom-lettering.html>

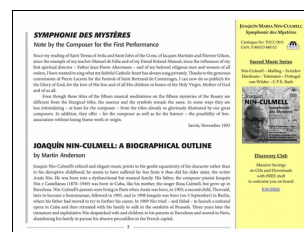
↓ illustrated user guide

circumference is greatest for the top line of text and decreases therefore you can lay out more text on the longer arc.

Record Label Services for Toccata Classics – album page & automated graphics



RecordLabel
PHYSICAL > DIGITAL
SOFTWARE SERVICES



↑ advert graphics ('fake' CDs) generated from cover art

iTunes Digital Booklet ↑

↓ Tracks tab

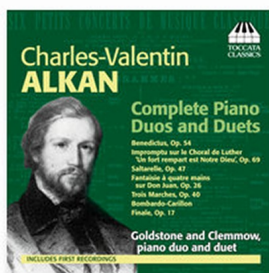
CD inlays/labels
for burn-your-own
digital downloads
↓

Charles-Valentin Alkan: Complete Piano Duos and Duets

Benedictus, Op. 54
Impromptu sur le Choral de Luther 'Un fort rempart est Notre Dieu', Op. 69
Saltarelle, Op. 47
Fantaisie à quatre mains sur Don Juan, Op. 26
Trois Marches, Op. 40
Bombardo-Carillon
Finale, Op. 17

Anthony Goldstone and Caroline Clemmow, piano duo, piano duet

The piano works of Charles-Valentin Alkan (1813–88) are among the most demanding ever written – but they can also gleam with a fierce joy and twinkle with mischievous humour, so it's hardly surprising to find his works for piano duet bubbling with freewheeling energy. The two works for pedal piano – transcribed here for two pianos by Roger Smalley – show a more solemn side to this devoutly religious composer, though they, too, have their own charge of excitement and Alkan's trademark eccentric originality.



Now Playing

Alkan: Piano Duos and Duets Track 17: *Trois Marches*, Op. 40: No. 3 in B flat major (*Modérément*)

Buy this CD

Alkan: Piano Duos and Duets £13.50
£8.50 to Discovery Club members (member discounts on MP3s also)

Details Tracks Artists Notes Reviews

Track	Title	Duration	Listen	MP3
(1-19)	Charles-Valentin Alkan: Complete Piano Duos and Duets	70:35		7.99
1	<i>Benedictus</i> , Op. 54	8:18		1.15
(2-5)	<i>Impromptu sur le Choral de Luther 'Un fort rempart est Notre Dieu'</i> , Op. 69	13:12		1.80
2	minim = 63	4:14		0.60
3	<i>L'istesso tempo</i> (minim = 63)	1:23		0.30
4	<i>L'istesso tempo</i> (minim = 63)	1:54		0.30
5	<i>L'istesso tempo</i> (minim = 63)			
6	<i>Saltarelle</i> , Op. 47 for piano duet			
(7-14)	<i>Fantaisie à quatre mains sur Don Juan</i> , Op. 26			
7	Introduzione			
8	Tema ('Venite pur avanti')			
9	Variation 1			
10	Variation 2			
11	Variation 3			
12	Variation 4			
13	Variation 5			
14	Finale ('Finch' han dal vino')			
(15-17)	<i>Trois Marches</i> , Op. 40			
15	No. 1 in A flat major (<i>Allegro</i>)			
16	No. 2 in C minor/E flat major (<i>Allegro moderato</i>)			
17	No. 3 in B flat major (<i>Modérément</i>)			
18	<i>Bombardo-Carillon</i> , for piano duet			
19	<i>Finale</i> , Op. 17, for piano duet			

Customer Comments

Details Tracks Artists Notes Reviews



Charles-Valentin Alkan 1813–1888

composer

Other items featuring Charles-Valentin Alkan:



Anthony Goldstone and Caroline Clemmow

piano duo, piano duet

Other items featuring Anthony Goldstone and Caroline Clemmow:



Programmers for Red Sound *SoundBITE* products – Mac & Windows GUIs

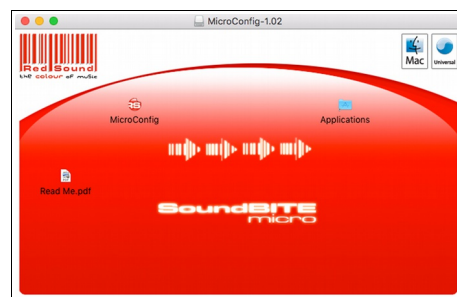


← *SoundBITE micro* programmer GUI



SoundBITE micro Audio/MIDI Synchroniser

↓ installers



SoundBITE Pro Loop Sampler

↓ *SoundBITE Pro* programmer GUI

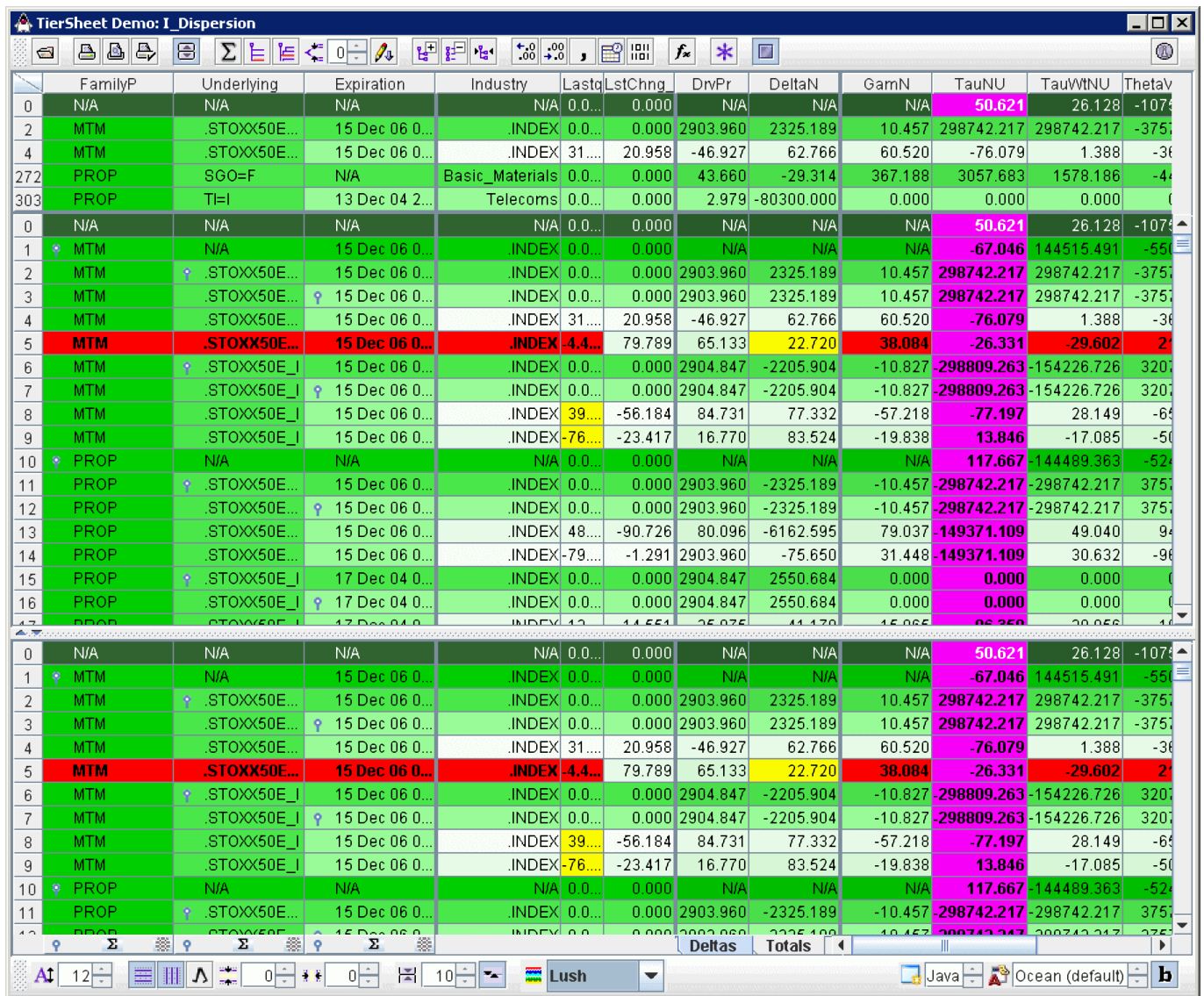
Loop Name	AutoPlay	Loop Mode	Volume	Sync
A Loop - A 1 Beats - 125.6 bpm	mute	cyclic	6 dB	1-1
B Empty	mute	cyclic	0 dB	1-1
C Loop - C 4 Beats - 127.1 bpm	mute	restart	0 dB	1-1
D Empty	mute	cyclic	0 dB	1-1
E Loop - E 8 Beats - 127.1 bpm	play	one-shot	0 dB	1-1
F Loop - F 16 Beats - 127.1 bpm	mute	cyclic	-6 dB	1-1

↑ Windows

Mac →

Java Swing components for UBS Bank – feature-rich tree-table component

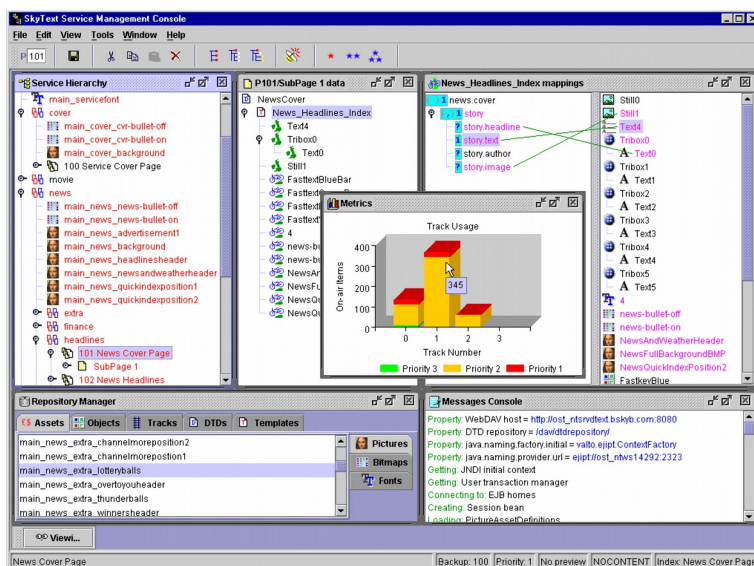
TierSheet: a single MVC composite of Table, Tree, List, SplitPane, TabbedPane, ScrollBar components with custom tree-table data model and API for ToolBar controls, also live export to MS Excel via COM.



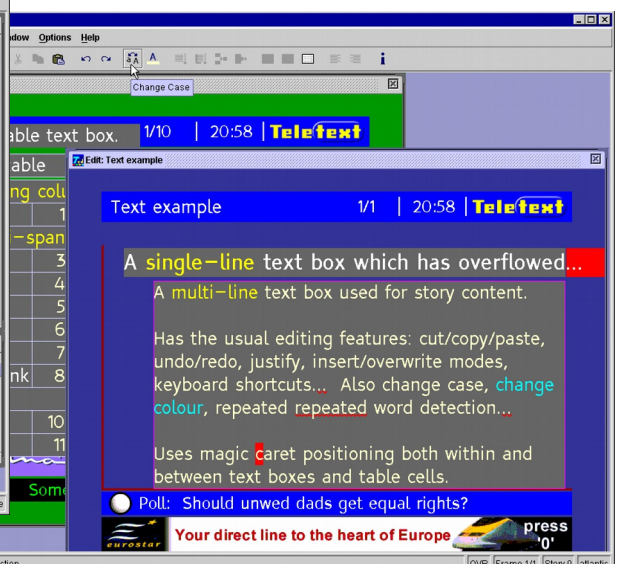
The screenshot displays the TierSheet Demo application, which is a Java Swing window titled "TierSheet Demo: I_Dispersion". It features a complex tree-table component with multiple columns and rows. The columns include FamilyP, Underlying, Expiration, Industry, Lastq, LstChng, DrvPr, DeltaN, GamN, TauNU, TauWtNU, and ThetaV. The rows are color-coded (green, red, yellow) and contain numerical data. A toolbar at the top includes various icons for file operations, editing, and viewing. A status bar at the bottom shows the current selection and some application settings.

	FamilyP	Underlying	Expiration	Industry	Lastq	LstChng	DrvPr	DeltaN	GamN	TauNU	TauWtNU	ThetaV
0	N/A	N/A	N/A	N/A	0.0...	0.000	N/A	N/A	N/A	50.621	26.128	-1074
2	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	0.0...	0.000	2903.960	2325.189	10.457	298742.217	298742.217	-375
4	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	31....	20.958	-46.927	62.766	60.520	-76.079	1.388	-36
272	PROP	SGO=F	N/A	Basic_Materials	0.0...	0.000	43.660	-29.314	367.188	3057.683	1578.186	-4
303	PROP	TI=I	13 Dec 04 2...	Telecoms	0.0...	0.000	2.979	-80300.000	0.000	0.000	0.000	0
0	N/A	N/A	N/A	N/A	0.0...	0.000	N/A	N/A	N/A	50.621	26.128	-1074
1	MTM	N/A	15 Dec 06 0...	.INDEX	0.0...	0.000	N/A	N/A	N/A	-67.046	144515.491	-55
2	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	0.0...	0.000	2903.960	2325.189	10.457	298742.217	298742.217	-375
3	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	0.0...	0.000	2903.960	2325.189	10.457	298742.217	298742.217	-375
4	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	31....	20.958	-46.927	62.766	60.520	-76.079	1.388	-36
5	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	-4.4...	79.789	65.133	22.720	38.084	-26.331	-29.602	2
6	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	0.0...	0.000	2904.847	-2205.904	-10.827	-298809.263	-154226.726	320
7	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	0.0...	0.000	2904.847	-2205.904	-10.827	-298809.263	-154226.726	320
8	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	39....	-56.184	84.731	77.332	-57.218	-77.197	28.149	-6
9	MTM	.STOXX50E...	15 Dec 06 0...	.INDEX	-76....	-23.417	16.770	83.524	-19.838	13.846	-17.085	-5
10	PROP	N/A	N/A	N/A	0.0...	0.000	N/A	N/A	N/A	117.667	-144489.363	-52
11	PROP	.STOXX50E...	15 Dec 06 0...	.INDEX	0.0...	0.000	2903.960	-2325.189	-10.457	-298742.217	-298742.217	375
12	PROP	.STOXX50E...	15 Dec 06 0...	.INDEX	0.0...	0.000	2903.960	-2325.189	-10.457	-298742.217	-298742.217	375
13	PROP	.STOXX50E...	15 Dec 06 0...	.INDEX	48....	-90.726	80.096	-6162.595	79.037	-149371.109	49.040	9
14	PROP	.STOXX50E...	15 Dec 06 0...	.INDEX	-79....	-1.291	2903.960	-75.650	31.448	-149371.109	30.632	-96
15	PROP	.STOXX50E...	17 Dec 04 0...	.INDEX	0.0...	0.000	2904.847	2550.684	0.000	0.000	0.000	0
16	PROP	.STOXX50E...	17 Dec 04 0...	.INDEX	0.0...	0.000	2904.847	2550.684	0.000	0.000	0.000	0
17	PROP	.STOXX50E...	17 Dec 04 0...	.INDEX	4.2...	14.554	26.076	14.170	15.066	96.350	20.056	14

Java Swing GUIs for Press Association and Sky – for digital television text services



← Sky Text Management Console GUI for Sky



Teletext Content Editor GUI for PA News →

Website Development – some samples

Frameworks include WordPress, Prestashop, CMS Made Simple, Zen Cart, Dreamweaver, custom PHP.

