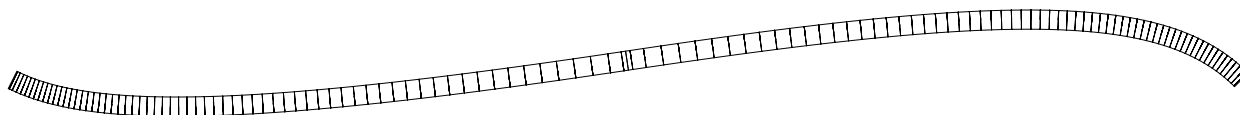1978–

Michael Joshua Ryan

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St. Louis, MO 63118

202-494-2570

Objective

To combine Renaissance aesthetics, cosmopolitan ethics, and scientific technique in the critique and construction of physical and conceptual artifacts.

Education

Dec 2020   BSCS University of Missouri - St. Louis (expected)

Employment

1998–2001   Student Programmer, UM - St. Louis Registrar's Office. Perform MARKIV mainframe database queries (MVS/TSO) and reformat data (UNIX) to produce reports (Line-Printer) and address labels using Postscript. One interesting project was producing the data for a student directory with embedded Quark tags. Developed a system for interactive queries and accellerated data entry using WinBatch.

2002–2019   Barista, Starbucks Coffee Co.

Extracurricular

1989–   Study the guitar, piano, bass, clarinet, music theory, songwriting. Rock, Folk, Jazz, Ragtime, Blues, Classical, Flamenco. UMSL Jazz Band, Jazz Ensemble, Pep Band, Concert Band.

1998–1999   "Redaktor" of the Pierre Laclede Honors College Student Association's *Brain Stew.* Designed and Edited monthly magazine using Pagemaker and various other tools.

1999–2000   Treasurer of the UMSL ACM Chapter. *Requisitioned "first" computer!*

1998–2003   Intense interest in programming languages and language implementation, graphics and graphics programming.

2007–present   Began the xpost project with a goal to implement a clone of Sun Microsystems' *NeWS* graphical programming interface for UNIX. Participated in internet programming fora: comp.lang.c, comp.lang.postscript, stackoverflow.com under the name *luser droog*, contributing programs, answers and questions.

2014–present   Performed in local musicals with Stray Dog Theatre and Ignite Theatre on electric bass, upright bass, and electric guitar.

Portfolio

2008–present   xpost: A Level-1 Postscript Interpreter for GNU/Linux/X11 (github.com/luser-dr00g/xpost).
debug.ps: A portable Debugger for PostScript (github.com/luser-dr00g/debug.ps).
pcomb: Parser Combinators in C (github.com/luser-dr00g/pcomb).

```postscript
20  %!PS
21  %Simple Typesetting Engine with Justified paragraphs
22  /margin 72 def /box [ clippath pathbbox ] def /left margin 30 add def
23  /top [ left box 3 get margin sub ] cvx def /right box 2 get margin sub def
24  /bot margin def /newpage { T top moveto } def /sigil<5E>def
25  /br  { 0 lead neg rmoveto } def /hbr { 0 lead -0.5 mul rmoveto } def
26  /cr { left currentpoint exch pop moveto } def /buf <<>> def /++ { dup load 1 add store } def
27  /hr { gsave right left add 2 div  currentpoint exch pop translate
28        7.2 dup scale -32 -1 moveto -28 -3 -20 -3 0 0 curveto
29        currentpoint strokepath currentlinewidth dup 72 div setlinewidth stroke setlinewidth
30        moveto 20 3 28 3 32 -1 curveto 1 setflat
31        strokepath currentlinewidth dup 72 div setlinewidth stroke setlinewidth grestore br } def
32  /rline { gsave dup stringwidth pop neg 0 rmoveto show grestore } def
33  /line { gsave sigil{search{show exch token pop exec exch}{show exit}ifelse}loop grestore } def
34  /par { (\n) { search exch line not { exit } if if
35        currentpoint exch pop bot lt { showpage newpage } if } loop br } def
36  /last { buf buf length 1 sub get 0 get } def
37  /append { buf length 0 gt { dup 0 get 0 1 getinterval (\).,) exch search { pop pop last ( ) eq
38        { buf length 1 sub undef } if } if pop } if buf exch buf length exch put } def
39  /push { dup 0 get () eq {pop}{ dup 0 get ( ) eq { buf length 0 eq {pop}{ last ( ) eq {pop}{
40        append } ifelse }{ append } ifelse } ifelse } def
41  /trim { buf length 0 gt {last ( ) eq { buf buf length 1 sub undef } if } if } def
42  /buffor{ buf 0 get 0 get ( ) eq {1}{0} ifelse  1
43        buf length last ( ) eq {2}{1} ifelse sub  4 3 roll
44        {buf exch get} /exec cvx 3 2 roll /exec cvx 4 array astore cvx  for } def
45  /dump {0 {spaces s} argsbegin { 0 get ( ) eq {/spaces ++} if } buffor
46   cr { aload pop pop setfont stringwidth rmoveto } buffor /gap right currentpoint pop sub def
47   /spaceadjust gap spaces dup 0 eq {pop 1} if div def cr { aload pop /lead exch def setfont
48        {dup ==only}pop s } buffor cr br end /buf <<>> def {/ =}pop } def
49  /accum {dup currentpoint pop exch stringwidth pop add right gt {{spaceadjust 0 32 4 3 roll
50        widthshow} dump } if dup stringwidth rmoveto [ exch currentfont lead ] push } def
51  /jtext { { } { search exch dup (\() eq {accum}{accum ( ) accum} ifelse not{exit}if } loop } def
52  /jpar { sigil{search{jtext exch token pop exec exch}{jtext exit}ifelse}loop {show} dump } def
53  /settab{/tabstop currentpoint pop def}def /tab{tabstop currentpoint exch pop moveto}def
54  /argsbegin{ dup length dict begin {exch def} forall } def /proc { token pop exch pop } def
55  /fontproc {{name lead x} argsbegin ({//name //x selectfont /lead lead def}) proc bind end } def
56  /I 10 11 /Palatino-Italic fontproc def /R 10 11 /Palatino-Roman fontproc def
57  /H 18 16 /Palatino-Roman fontproc def
58  /B {/Palatino-Roman findfont [14 0 0 10 0 0] makefont setfont /lead 13 def} def
59  /T {/Courier findfont [9 0 0 10 0 0] makefont setfont /lead 11 def} def
60
61  (1978-          ) newpage rline
62  (Michael Joshua Ryan          ^settab ^T luser.droog@gmail.com) H par
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64  St. Louis, MO 63118) R hbr par
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114 pcomb: Parser Combinators in C (^T github.com/luser-dr00g/pcomb^R).) R par
115 showpage
```