Vladilen Kozin

Clojure(Script), Racket, Emacs Lisp, Redex, JavaScript, OMeta, meta-programming Fall 13 Recurse Center (skia Hacker School) alum UK Tier 1 Exceptional Talent visa holder

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	Corporate ladder
Apr-Nov 2017	Senior Programmer at Droit (London, UK) Same as before but with obligatory daily commute.
2015-2017	Programmer/Consultant at Droll (remote and New York, USA) Building an expert system for compliant tracting. Steaking Crigine(Script) into unsuspecting framcial glaints. Nor any given day to clude the designing DSLs, implementing complient, parsers, rule-based engines, putting together simple browser-based GUIs and whatever els the startup life would have me do.
2014-2015	Programmer at Yandov (Moscow, Russia), Officially a member of Search Interfaces Development Infrastructure group, but mostly I were backend tools for source to source compilation - engines to write your template engines. If were bucky and did it right frontend developers would get to use my work and take all the credit.
2009-2011	Equity Derivatives & Structured Products Sales at Renaissance Capital (Moscow, Russia).
2007-2009	EM Structured Solutions and Derivatives Sales at Barclays Capital (London, UK).
	Projects
Emacs Lisp	Author of multi.el - all things multiple dispatch for Emacs Lisp: type driven dispatch with protocols, ad-hoc polymorphism with multi-methods, pattern-matching and destructuring without noise with multi-patterns, case-dispatch with multi-defuns, benchmarking with multi- benchmarks.
Racket	Author of tilds an opinionated threading macro with self-documenting hole-markers, clause level keyword options and an implicit escape continuation.
	Author of prelude that extends Racket with generic associative API, Lua-style meta-tables f prototypal inheritance and more.
	Author of ponzi - the beginnings of a clever Scheme for a discerning smart contract builder. WIP but it does implement the Ethereum Virtual Machine close enough to the Yellow Paper.
	Author of ometa-racket, a mostly complete Racket implementation of OMeta - OO pattern- matching language that extends PEGs with ability to handle left-recursive rules and match structured data.
	Author of skish, a mostly futile attempt at porting Olin Shivers' wonderfulscsh to Racket. scsh is a non-interactive Unix shell embedded within Scheme (originally Scheme48).
	Contributor to Racket the language.
Ctojure	Author of several closed-source products: FpML message parser, financial derivatives classifier based on ISDA taxonomies, legal annotation tools, PDF and XML content extractor and transformation tools.
	Author of bot - a crypto-currency arbitrager that could talk to several exchanges including Bitlinex and GDAX. It uses Clojure Spec to parse and validate protocol messages and alept for async communication and concurrency.
	Author of playrum - just getting the taste for React in ClojureScript.
	Contributor to seqexp, regular expressions for Clojure sequences.
JavaScript	Author of bemhtml-syntax, a syntax converter for BEMHTML - an XSLT inspired templating language - part of BEM methodology of frontend development.
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	Author of xist-more, an XJST-based compiler for BEMHTML templates that facilitates incremental compilation of templates potentially on the Client. WIP.
	Contributor to ometa-js, a JavaScript implementation of OMeta.
	Contributor to bem-xjst, XJST-based compiler for BEMHTML templates. Public Speaking
due Jul 2019	talk accepted for RacketCon'19 (Salt Lake City, USA)
due Sep 2019	talk accepted for Strange Loop'19 (St. Louis, USA)
	Formal education
2004-2006	Keldysh Institute of Applied Mathematics (Moscow, Plussia) PhD track in Applied Mathematics, dropped out
2004	New Economic School (Moscow, Russia) MS in Economics track with full scholarship, dropped out
1999-2004	Lomonosov Moscow State University (Moscow, Russia) MS in Theoretical Mechanics and Applied Mathematics.
	Autodidacticisms
2018	Language-oriented Programming and Language Building The Racket Summer School 2018 (Salt Lake City, USA)
2017	Redex for designing operational semantics The Racket Summer School of Semantics and Languages (Salt Lake City, USA) While targeted at P.P. Phila bauchet of us non-academic types had been admitted. Learnt to reate languages quickly and back them up with runnable reduction semantics - what's not to like?
2015	Introduction to Probability, [Certificate 94%] MIT for edX Because it's awesome.
2014	Paradigms of Computer Programming 1, [Sertificate] 94%] Paradigms of Computer Programming 2, [Sertificate] 94%] Puradigms of Computer Programming 2, [Sertificate] 97%] Université catholique de Louvain freu de l'American de l'American de l'American de Louvain freu de l'American de l'American de Louvain freu de l'American de
2014	Hardware/Suffware Interface, [Certificate 88.8%] Livewally of Washington for Counters Here I was interfaced to systems programming, Essentially an Introduction to Computer Systems course as taught at Camerige Mollow with the same course-load and text Computer Systems course as taught at Camerige Mollow with the same course-load and text Computer Systems. A Programmer's Empospherie by Bypert and OHSHardware.
2012	Programming Languages, Dertificated Brown University How Was introduced to creating PLs. Taught by Shiriam Krishnamurthi based on his wonderful PLAI text. My solutions - a sequence of interpreters for progressively more complex languages at the way to OOP, PSS transforms and type checkers.
2012	How to Design Programs by Matthias Felleisen et al.
	How I was introduced to programming. Assorted solutions to HtDP. Languages
Russian, English	Equally uncomfortable.
Clojure Racket Emacs Lisp JavaScript OMeta	What I get to use on the job. Carrt complain. Favorite Lup, Would be my weapon of choice were such choice ever offered. Unavoidable Lisp for any Emacs user. It is surprisingly fun to code. Wrothe fair amount, mostly backend compiler staff with Node js. Extensive experience writing parsers with complex and context dependent grammars. Can implement executable semantics for your pet-inaugue or DSL.
Redex Java C	Enough to write a Clojure wrapper with necessary bindings. Enough to pass a systems programming class but not nearly enough to actually use it. Toyed with but never used in earnest. Iported some good ideas from Lua to Racket and

Most of my activities and interests these days involve boxes with lights and buttons. Even so there were reports of me cycling, bouldering, surfing, roler-elasting, sking and more. Having owned a sports car I'll choose a beylder every first.

Lived in the LK, US, Hungary, Spain and far more exotic places. Crossed the US from Mexico to Canada twice with the current state court of 19.