## 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

	Corporate ladder
Apr-Nov 2017	Senior Programmer at Droit (London, UK) Same as before but with obligatory daily commute.
2015-2017	Programmen/Consultant at Droit (remote and New York, USA) Building an expert system for compliant trading, Smaking Clojure/Script) into unsuspecting financial giants. On any yield and yield de designing DSLs, implementing compilers, passers, sive-based engines, putting together simple browser-based CUIs and whatever elit the startup life would have me do.
2014-2015	Programmer at Yandox (Moscow, Russia). Officially a member of Search Interfaces Development Infrastructure group, but mostly I wrote backend tools for source to source compilation - engines to write your template engines. If I 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 t 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.
Clojure	Author of several closed-source products: FpML message parser, financial derivatives classifier based on ISDA taxonomies, legal annotation tools, PDF and XML content extracte and transformation tools.
	Author of bot - a crypto-currency arbitrager that could talk to several exchanges including Bitfinex 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.
JavaScript	Contributor to seqexp, regular expressions for Clojure sequences.  Author of bemintmi-syntax, a syntax converter for BEMHTML - an XSLT inspired templating
	language - part of BEM methodology of frontend development.  Author of bemhrmi-source-convert, a best effort compiler from BEMHTML templates to BH
	templates.  Author of xist-more an X.IST-based compiler for REMHTMI templates that facilitates.
	Author of xipt-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-xist, XJST-based compiler for BEMHTML templates.
	Public Speaking
due Jul 2019	talk at 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, Russia) 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.
2018	Autodidacticisms  Language-oriented Programming and Language Building
2017	The Racket Summer School 2018 (Salt Lake City, USA)
	Redex for designing operational semantics. The Racket Surmer School of Semantics and Languages (Salt Lake City, USA). While targeted at PL PhDs a bunch of us non-academic types had been admitted. Learnt to create 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, [Sertificates 94%] Paradigms of Computer Programming 2, [Sertificates 97%] Paradigms of Computer Programming 2, [Sertificates 97%] New York State State (Sertificates 97%) Paradigms of Sertificates (Sertificates 97%) Paradigms of Sertificates (Sertificates 97%) Paradigms (Sertificates 97%) Paradigm
2014	Hardware/Software Interface, [Certificate 88.6%] University of Washington for Counters  How Iwas introduced to systems programming. Essentially an Introduction to Computer Systems course as taught at Camegie Mellor with the same course-load and text Compute Systems. A Programmer's Ferrepactive by Bypert and O'Habart.
2012	Programming Languages, Dertificate] Brown University How I was introduced to creating PLs. Taught by Shrimm Krishnamurthi based on his woodeful PLA text. My solutions - a sequence of interpretes for progressively more complete fraquages of the very to DOC 726 streatforms and type or before.
2012	How to Design Programs by Matthias Felleisen et al. How I was introduced to programming. Assorted solutions to HtDP.
	Languages Equally uncomfortable.
Clojure Racket	What I get to use on the job. Can't complain.  Favorite Lisp. Would be my weapon of choice were such choice ever offered.
Emacs Lisp	Unavoidable Lisp for any Emacs user. It is surprisingly fun to code. Wrote fair amount, mostly backend compiler sulff with Node.js. Extensive experience writing parsers with complex and context dependent grammars.
JavaScript	
OMeta Redex	Can implement executable semantics for your pet-language or DSL.
JavaScript OMeta Redex Java C Factor, OCaml,	Extensive experience writing parsers with complex and context dependent grammars. Can implement executable semantics for your pet-language or DSL. Enough to write a Cligice 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. I ported some good ideas from Lus 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.