## Vladilen Kozin

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

Apr-Nov 2017	Corporate ladder Senior Programmer at Droit (London, UK)
	Same as before but with obligatory daily commute.
2015-2017	Programmer/Consultant at Druit [New York, USA - remote] Building an expert system for complicit trading. Sensiving Clajint/Sorigi) into unsuspecting framcisi glints. Or samy given day! could be designing DSLs, implementing complient, prosense, rule-based engines, putting together simple browser-based GUIs and whatever else the startup life would have me do.
2014-2015	Programmer at Yandex (Moscow, Russia).  Officially a member of Seach Interfaces Development Infrastructure group, but mostly I write backend tools for source compilation - engines to write your template regulation of the seach
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-horpharks.
Racket	Author of tide 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 for 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' wonderfulsosh 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 extractor 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 aleph for async communication and concurrency.
	Author of playrum - just getting the taste for React in ClojureScript.
	Contributor to sequep, regular expressions for Clojure sequences.
JavaScript	Author of bemintml-syntax, a syntax converter for BEMHTML - an XSLT inspired templating language - part of BEM methodology of frontend development.
	$\label{lem:author} \textit{Author} \ \text{of} \ \text{bemintmi-source-convert}, \ \textbf{a} \ \textit{best effort} \ \text{compiler} \ \text{from} \ \text{BEMHTML} \ \text{templates} \ \text{to} \ \text{BH} \ \text{templates}.$
	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.
	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.
	Autodidacticisms
2018	Language-oriented Programming and Language Building The Racket Summer School 2018 in Salt Lake City, Utah.
2017	Redex for designing operational semantics. The Racket Summer School of Semantics and Languages in Salt Lake City, Utah. While targeted at PL-PiDs a burch 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 avesome.
2014	Paradigms of Computer Programming 1, [Certificate1 94%]
	Paradigms of Computer Programming 2, [Partificate2 97%] Université catholique de Louvain for edX  How I was introduced to concurrency, multi-paradigm programming and delightful paradigms that so far seem to exist only in academic setting. Taught by Peter Van Roy and is based on his classical Concepts, Techniques, and Models of Computer Programming.
2014	Hardware/Software Interface, [Certificate 89.696] University of Washington for Coursera How Iwas introduced to systems programming, Essentially an Introduction to Computer Systems course as taught at Carnegie Melion with the same course-load and text Computer Systems. A Programminer's Perspective by Bingst and O'Haldano.
2012	Programming Languages, [Certificate] Brown University How I was introduced to creating PLs. Taught by Shriram Krishnamurthi based on his wonderful PLAI text. My solutions – a sequence of interpreters for progressively more complex languages at the way to OC-RS transforms and type checkers.
2012	How to Design Programs by Matthias Felleisen et al.  How I was introduced to programming. Assorted solutions to HtDP.
	Public Speaking
due July 2019	I will be an invited speaker at RacketCon'19 in Utah
	Languages
Clojure	Equally uncomfortable.  What I get to use on the job. Can't complain. Favorite Lisp. Would be my weapon of choice were such choice ever offered.
Hacket Emacs Lisp JavaScript	Unavoidable Lisp for any Emacs user. It is surprisingly fun to code.  Wrote fair amount, mostly backend compiler stuff with Node is.
OMeta Redex Java	Extensive experience writing parsers with complex and context dependent grammars.  Can implement executable semantics for your pet-language or DSL.
C Factor, OCaml, Lua, Rust, Shen	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 earmest, lorded some good ideas from Lus to Racket and contributed a patch to racer-rust.
	Activities and interests ies and interests these days involve boxes with lights and buttons. Even so there were reports idering, surfing, roller-skating, skiling and more. Having owned a sports car I'll choose a