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

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| | Corporate ladder |
| Jul-Dec 2019 | Senior Programmer at All Street Research (London, UK) |
| | Building cognitive assistant for investment research in Clojure(Script). Front and back, Al, NLP, and more buzzwords here. |
| Apr-Nov 2017 | Senior Programmer at Droit (London, UK) Same as before but with obligatory daily commute. |
| 2015-2017 | Programmer/Consultant at Droit (remote and New York, USA) Building an expert yestern for compliant trading, Snessing Clojure(Script) into unsuspecting financial giants. On any given day (could be designing DSLs, implementing complex, purpose, to be based regiments, putting together simple browser-based GUIs and whatever det the startup lik would have me do. |
| 2014-2015 | Programmer at Yandex (Moscow, Russia). Officially a member of Search Interfaces Development Infrastructure group, but mostly I wrote backent docts for source to source compilation - engines to write your template engines. If were lucky 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 Liep: 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 Bids 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' wonderfulscish to Racket, scish is a non-interactive Unix shell embedded within Scheme (originally Scheme48). Contributor to Racket the language. |
| Clojure | Contractor to Hacket the language. Author of several closed-source products: FpML message parser, financial derivatives classifier based on ISDA autonomies, 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 Biffinex 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 seqexp, regular expressions for Clojure sequences. |
| JavaScript | Author of bemintmi-syntax, a syntax converter for BEMHTML - an XSLT inspired templating language - part of BEM methodology of frontend development. |
| | Author of bemintmi-source-convert, a best effort compiler from BEMHTML templates to BH 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. |
| | Public Speaking |
| Jul 2019 | talk at Strange Loop'19 (St. Louis, USA) talk at RacketCon'19 (Salt Lake City, 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. |
| | 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 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, [Certificate 1 94%] Paradigms of Computer Programming 2, [Certificate2 97%] Université catholique de Louvain for edX How I was introduced to concurrency, multi-paradigm programming and delightful |
| | 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 89.6%] 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 Compute Systems. A Programmer's Perspective by Byanst and O'Haldano. |
| 2012 | Programming Languages, Dertificate] Brown University How I was introduced to creating PLs. Taught by Shriram Krishnamurthi based on Nis wonderful P.Al text. My solutions - a sequence of interpreters for progressively more complex languages at the way to OSC PSE transforms and type checkers. |
| 2012 | How to Design Programs by Matthias Felleisen et al. How I was introduced to programming. Assorted solutions to HIDP. |
| | Languages |
| | |
| Russian, English Cloiure | Equally uconfordable. What gife to use on high Carl's complain. Favorita Lisa, Would be my weapon of choice were such choice were offered. Unavoidable Lisa for any Ernacia user. It is supprisingly fur to code. Worde far amount, mostly tackind compiler staff with hodels, Worde far amount, mostly tackind compiler staff with hodels, Construction of the control |

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-shafting, sixing and more. Having owned a sports carl'Il choose a beylder every time. 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.