

# Vlad Kozin

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JavaScript, OMeta, Racket, meta-programming

Fall'13 Recurse Center (aka Hacker School) alum.

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## Corporate ladder

- Since 2014 *Programmer* at [Yandex](#) (Moscow, Russia).  
Officially a member of *Search Interfaces Development Infrastructure* group, but mostly I write backend tools that perform source to source compilation: parse, transform and generate code. Any given project will inevitably depend on: [ometajs](#), [esprima](#), [estraparse](#), [uglify-js](#), [escodegen](#), [xjst](#). If I'm lucky and do it right frontend developers get to use my work and get all the credit.
- 2009-2011 *Equity Derivatives & Structured Products Sales* at [Renaissance Capital](#) (Moscow, Russia).  
No programming of any kind unless you count Excel.
- 2007-2009 *EM Structured Solutions and Derivatives Sales* at [Barclays Capital](#) (London, UK).  
No programming of any kind unless you count Excel and Powerpoint.

## Code to frown upon

- Racket *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' wonderful [scsh](#) to Racket. [scsh](#) is a non-interactive Unix shell embedded within Scheme (originally Scheme48).
- JavaScript *Author* of [bemhtml-syntax](#), a syntax converter for [BEMHTML](#) - an XSLT inspired templating language - part of [BEM methodology](#) of frontend development.  
*Author* of [bemhtml-source-convert](#), a *best effort* compiler from [BEMHTML](#) templates to [BH](#) templates.  
*Author* of [xjst-more](#), an [XJST](#)-based compiler for [BEMHTML](#) templates that facilitates incremental compilation of templates potentially on the Client. WIP.  
*Contributor* to [ometajs](#), a JavaScript implementation of [OMeta](#).  
*Contributor* to [bem-xjst](#), [XJST](#)-based compiler for [BEMHTML](#) templates.
- Emacs Lisp *Author* of [jslime](#), a minor mode that sends JavaScript code to Node.js repl - silly little thing with very few features that does make iterative JavaScript development in Emacs sane.  
*Contributor* to [projectile](#), a tiny fix for [persp/projectile](#) when used with Helm.

## Formal education

- 2004-2006 [Keldysh Institute of Applied Mathematics](#) (Moscow, Russia)  
*PhD track in Applied Mathematics, dropped out*
- 1999-2004 [Lomonosov Moscow State University](#) (Moscow, Russia)  
*MS in Theoretical Mechanics and Applied Mathematics.*

## Autodidacticisms

- 2012 *How to Design Programs* by Matthias Felleisen et al.

2012	<p>How I was introduced to programming. <a href="#">Assorted solutions to HtDP</a>.</p> <p><a href="#">Programming Languages</a>, [Certificate] Brown University</p> <p>How I was introduced to creating PLs. Taught by <a href="#">Shriram Krishnamurthi</a> based on his wonderful <a href="#">PLAI</a> text. <a href="#">My solutions</a> - a sequence of interpreters for progressively more complex languages: all the way to OOP, CPS transforms and type checkers.</p>
2014	<p><a href="#">Hardware/Software Interface</a>, [Certificate 89.6%] University of Washington for Coursera</p> <p>How I was introduced to systems programming. Essentially an Introduction to Computer Systems course as taught at Carnegie Mellon with the same course-load and text <a href="#">Computer Systems: A Programmer's Perspective</a> by Bryant and O'Hallaron.</p>
2014	<p><a href="#">Paradigms of Computer Programming 1</a>, [Certificate1 94%] <a href="#">Paradigms of Computer Programming 2</a>, [Certificate2 97%] Université catholique de Louvain for edX</p> <p>How I was introduced to concurrency, multi-paradigm programming and delightful paradigms that so far seem to exist only in academic setting. Taught by <a href="#">Peter Van Roy</a> and is based on his classical <a href="#">Concepts, Techniques, and Models of Computer Programming</a>.</p>
2015	<p><a href="#">Introduction to Probability</a>, [Certificate 94%] MIT for edX</p> <p>Because it's awesome.</p>

## Languages

Russian, English	Equally uncomfortable with both.
Racket	Would be my weapon of choice were such choice ever offered.
JavaScript	What I get to speak at work.
OMeta	What I'm fortunate to speak at work.
Emacs Lisp	Unavoidable.
Factor, OCaml, F#	Toyed with but never mastered in earnest.

## Activities and interests

Most of my activities and interests these days involve boxes with lights and buttons. Even so there were reports of me cycling, bouldering, surfing, roller-skating, skiing and more. Having owned a sports car I'll choose a bicycle every time.

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

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