

Joel Burget

Software Developer

New York, New York | joelburget@gmail.com

EXPERIENCE

New Product Development Engineer - Vice President

JP Morgan

New York, New York

Feb 2015 - Present

I'm currently working on adding Raft-based consensus to the Ethereum Virtual Machine / Blockchain.

I previously split time between a developing a functional programming language called Hopper and front-end web development and design.

Consultant

Oct 2015 - Feb 2015

I worked as front-end web contractor with a specialization in React / Flux. I worked with both Spring and AlphaSheets.

Software Developer

Khan Academy

Jun 2011 - Jan 2015

I worked on many things during my time at Khan Academy - search / autocomplete, tooling, frontend UI, etc. Full-stack Python / JavaScript web development.

EDUCATION

Ohio State University

BS Mathematics, BS Computer and Information Science

2008 - 2012

PROJECTS

Hopper

An experimental functional programming language using resource logic to describe financial contracts (as well as ownership and authorization in general).

Pigment

An experiment in programming language design. Very much a work-in-progress. This was originally a fork of the Epigram programming language, but is now based on more practical JavaScript tooling.

haste:commonjs

I took an existing Haskell-to-JavaScript compiler and integrated it with conventional JavaScript tools (CommonJS modules), so that you can more easily use Haskell and JavaScript together.

react-haskell

Bindings in Haskell for Facebook's React JavaScript library. It works well considering that it's Haskell running in the browser to drive UIs. But this is the project where I learned when to quit. I wrote about using react-haskell for

user interfaces on my website.

KAS

Khan Academy

Khan Academy's computer algebra system. I created simple physics / units of measure support, so you can, say, answer a question in /kg/, when the answer was originally stated in /g/.

React Components

Khan Academy

React components originally from within Khan Academy that I open-sourced. This is the first example that I know of publishing React components on npm, now standard practice.

react-live-editor

A tool for live editing react components in the browser, used on the react-components landing page.

Perseus

Khan Academy

Khan Academy's exercise editing system. I wrote the integration between Perseus and the main website. Creating and saving exercises; creating, saving, moving, renaming questions within an exercise.

SKILLS

Functional programming, programming languages, and formal methods, including advanced Haskell and familiarity with ML, Agda, Coq, etc.

Frontend web development, specializing in modern JavaScript and React.

Other programming languages including Python, C++, Java, bash, and SQL.

CONTACT

joelburget@gmail.com

<http://joelburget.com>

http://twitter.com/dino_joel

<http://github.com/joelburget>