Lev Karatun

Full-Stack JavaScript Developer

6 years of programming experience: professional development of a React + node.js application, teaching university students, and writing C++ as part of my PhD research. I'm passionate about modern technologies, website performance, and writing clean code.

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WORK EXPERIENCE

Full-Stack Software Engineer
Bibliocommons Inc.

01/2019 – 12/2018

Achievements/Tasks

- Develop front-end and back-end of a library catalog application (BiblioCore) using React (server- and client-side rendered), Redux, and node.js.
- Key contributor to the migration of one of the applications's most used pages from Ruby on Rails to React + node.js.
- Migrated the catalog application from React 15 to 16.
- Implemented code splitting using loadable-components.
- Created an npm package to standardize automated code linting rules for use across different teams, incorporated it in the CI/CD pipeline.
- Created a Babel plugin to enforce use of attributes used by QA.
- Reorganized development environment which resulted in reduction of setup time from 30 to 10 minutes.
- Made multiple improvements to the application build chain: added Webpack plugins to reduce the app bundle size, to enable use of latest JavaScript features and syntax.

Teaching Assistant: Programming On The Web (JavaScript), Introduction To Programming (Python)
University of Toronto (Department of Computer Science)

01/2014 – 12/2018   *Toronto, Canada*

Achievements/Tasks

- Taught JavaScript concepts, HTML and CSS responsive layouts, node.js, and Bootstrap to students in tutorials.
- Presented data structures and algorithms concepts to students in tutorials using Python.
- Taught students debugging principles in practicals and office hours.
- Decreased time spent on marking students' assignments by 80% by creating a suite of unit tests and integration tests using Jest, jsdom, and Cypress.

Junior IT Systems Engineer
CROC Inc.

10/2012 – 08/2013   *Moscow, Russia*

Achievements/Tasks

- Administered Linux servers, prepared technical and operational software documentation.
- Installed, configured and supported IBM middleware applications (IBM DB2, WebSphere App Server, MQ).

Application Support Specialist
JSC "Raiffeisenbank"

06/2010 – 09/2012   *Moscow, Russia*

Achievements/Tasks

- Provided application support and analytics using SQL and Unix administration skills.
- Collaborated with QA and developers in registering and tracking bugs in the software.

SKILLS

JavaScript   React   Redux   node.js

Git   Webpack   AST   SQL

MongoDB   Python   Testing   bash

EDUCATION

PhD Candidate
University of Toronto

09/2013 – 12/2018

Thesis

- Numerical modelling of plate tectonics (C++)

B.Sc. and M.Sc. Degrees
Moscow State University

09/2004 – 06/2010

Specialization

- Computer technologies in geology

PROGRAMMING PROJECTS

PairUp (11/2018 – 12/2018) ↗
- A way to find events to join, or people for your event
- Full-stack application built on next.js, node.js, express, passport, postgres

Movie data visualization (04/2018 – 10/2018) ↗
- A dashboard visualizing movie data using D3 on the front end and MongoDB + Express running on node.js on the back end.
- Data is presented using three types of diagrams (scatter plot, map, bar chart) that allow filtering and user interactions.

Memory game (05/2018) ↗
- A memory card game powered by React

AWARDS

Laurence Curtis Teaching Assistance Award (2016)
University of Toronto
- Awarded annually to the most outstanding Teaching Assistants in the Department of Earth Sciences.