

Lev Karatun

Full-stack JavaScript developer

Proficient in React, node.js, mongoDB and relational databases. Five years of experience teaching web development, data structures and algorithms to university students, as well as writing C++ as part of my PhD research. I'm passionate about modern technologies, website performance, and writing clean code.

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TEACHING EXPERIENCE

Programming on the web (JavaScript)

University of Toronto (Department of Computer Science)

09/2018 – Present

Toronto, Canada

Tasks/Achievements

- Teach JavaScript concepts, HTML and CSS responsive layouts, node.js, React and Bootstrap to students in tutorials.
- Decreased time spent on marking students' assignments by 80% by creating a suite of unit tests and integration tests using Jest and Cypress
- Help students with debugging using Chrome devtools and understanding of web technologies.

Introduction to programming (Python)

University of Toronto (Department of Computer Science)

01/2014 – Present

Toronto, Canada

Tasks/Achievements

- Presented data structures and algorithms concepts to students in tutorials using Python.
- Taught students debugging principles in practicals.

WORK EXPERIENCE

Junior IT systems engineer

CROC Inc.

10/2012 – 08/2013

Moscow, Russia

Achievements/Tasks

- Installed, configured and supported IBM middle-ware applications.
- Administered Linux servers, created snapshots of virtual machines with Oracle VMware for future use.
- Prepared technical and operational software documentation.

Application Support Specialist

JSC "Raiffeisenbank"

06/2010 – 09/2012

Moscow, Russia

Achievements/Tasks

- Created instructions to delegate simple requests (such as password resetting) to the 1st line of support, resulting in a 20% decrease of tickets escalated to the 2nd line of support.
- Provided application support and analytics using SQL queries to an Oracle database.
- Collaborated with QA and developers in registering and tracking bugs in the software.

SKILLS

JavaScript

HTML5

CSS3

React

node.js

MongoDB

D3

SQL

Git

Python

Testing

PROGRAMMING PROJECTS

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 for filtering and user interactions.
- https://github.com/lkaratun/visualization_dashboard

Memory game (05/2018) [↗](#)

- A memory card game powered by React
- https://github.com/lkaratun/memory_game

EDUCATION

PhD candidate

University of Toronto

09/2013 – Present

Toronto, Canada

Thesis

- Numerical modelling of plate tectonics (C++)
- Contributed 8 pull requests (1500 lines of code) to an open-source fluid dynamics modelling software (ASPECT)

B.Sc. and M.Sc. degrees

Moscow State University

09/2004 – 06/2010

Moscow, Russia

Specialization

- Computer technologies in geology

ADDITIONAL EDUCATION

The advanced web development bootcamp

(02/2018 – 06/2018)

Udemy

MongoDB basics, MongoDB for node.js developers

(06/2018 – 09/2018)

MongoDB University

AWARDS

Laurence Curtis Teaching Assistance Award (2016)

University of Toronto

- Awarded annually to the most outstanding Teaching Assistants in the Department of Earth Sciences.