

# CHEN GARBER

kgarber.com | kgarber@bu.edu | (781)-686-4333 | GitHub: KenG98 | linkedin.com/in/kengar

## SKILLS

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**Languages:** Python, Javascript / Node, Java, Clojure, Scala

**Experience:** Apache Spark, C, Swift, RabbitMQ, MongoDB, Redis, SQL, Angular, Express, Vue, Wordpress, Linux user

**Interests:** Big Data, Data Structures, Algorithms, Databases, Web Apps

**Other:** Fluent in English, Russian; Proficient in Spanish

## EDUCATION

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**Boston University College of Arts and Sciences**

Boston, MA

Computer Science – GPA 3.97 – Dean's List

Expected May 2019

## RELATED EXPERIENCE

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**Software Engineer Intern, Hariri Institute at Boston University**

Summer 2017

- Utilized Apache Spark on 6 terabyte economics dataset analysis.
- Sped up search queries over 2000% using a Spark Cluster.

**Software Engineer, Biomedical Engineering Research Laboratory at Boston University**

Feb – May 2017

- Built streaming API for biological sensor data.
- Created Cloud UI for viewing and sharing experiment data.
- Visualized experiment results in the cloud with D3.js.
- Implemented caching and fault tolerance for important data.

**Web Designer, Self Employed**

2013 – 2016

**IT Technician, Boston University**

October 2016 – December 2016

**Programming Teacher, RSM**

March – July 2016

- Taught 5-week intensive Python course to 13-15 year olds.
- Designed and created curriculum on my own.

**IT Intern, aPriori Technologies**

Summer 2014, 2015

**Math Tutor, RSM**

2012 – 2014

## RELATED COURSEWORK

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Data Structures and Algorithms, Combinatoric Structures (Discrete Math), Geometric Algorithms (Linear Algebra), Computer Systems, Probability in Computing. In Progress: Concepts of Programming Languages, Intro to Analysis of Algorithms, Algebraic Algorithms.

## OTHER PROJECTS

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- **Big Data** – search a set of over 100,000 resumes by skills using big data algorithms from the FLANN library (Fast Library for Approximate Nearest Neighbors).
- **Pattern Matching** – Quantitative analysis of stocks using Clojure (a functional LISP).
- **Web sockets** – Online multiplayer game using Node.js and socket.io.
- **Messaging software** – transmit text messages using audible sound playback (won 3<sup>rd</sup> place).
- **Algorithms** – physics simulation, enciphering messages, solving Sudoku, computer-generated art.
- **Organizer of BostonHacks** – 350 person Boston hackathon (2017 and 2018).