# Denis Kazakov

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## OBJECTIVE

Work on an interesting project and apply my growing knowledge from the fields of Applied Math and Computer Science.

## EDUCATION

**University of Colorado, Boulder; College of Engineering & Applied Science** (Bachelor of Science, May 2017)
Anticipated Majors: Applied Mathematics, Computer Science, Leadership Certificate
GPA: 3.98
Distinctions: *Dean's List, Esteemed Scholar, Engineering Honors Program, RMCCDC 2014 2nd place, EHP Recitation Leader*
Relevant Coursework: *Data Mining (current), Operations Research (current), PPL (current), Software Dev-t (current), Algorithms, Matrix Methods, Computer Systems, Diff Eq. & Lin. Algebra, Startup Essentials.*

**Cherokee Trail High School** (Graduated, May 2013)
GPA: 4.0 (unweighted), 4.7 (weighted)
Distinctions: *AP Scholar with Distinction,*
*Speech and Debate (2011-2013):* First place for Colorado State tournament in Congressional Debate, Received "Most Outstanding Speaker" award 4 times.

## WORK/EXPERIENCE

**ioSemantics** (Software Engineering Intern, summer 2014)
Integrated AI language parser into a powerful visual platform. Developed an RCP platform using object-oriented design. Focused on GUI design and programming, data visualization, script automation, distributed systems integration into the platform, UML and code documentation in an agile start-up environment.

***Research:*** *Nonlinear Dynamics of Computer Performance,* Elizabeth Bradley, PhD *(*Research Assistant, 2013-2014)
The project's objective is to use nonlinear dynamics to capture and predict the computer's performance. Implemented algorithms of data prediction using C++, MATLAB. Worked with the rest of the team to understand the computer's chaotic performance.

**Independent projects:** (read more on my webpage: 94kazakov.github.io )
1) *Spectral Clustering* algorithm in application to image segmentation, pattern identification in a dataset
2) *PageRank algorithm* in application to finding the most "important" person in a group of people on Facebook
3) *Singular Value Decomposition* (*SVD)* and Direct Cosine Transform *(DCT)* in application to image compression
4) Ebola outbreak modeling through an ODE system, ranking the most infectious regions using a Markov matrix.
5) *Theremin* using magnetometers through an Arduino platform (*current*)

**Colorado University Student Government**: Engineering Council (Representative-at-Large, Spring 2014 – current)
Allocating funds to student groups, consulting students and student groups in order to fully meet their needs, advertising job and event opportunities, organizing Engineering Days fair for College of Engineering

## SKILLS

**Fluent**: Python, Java, C++. **Proficient**: C, C#, UML, MATLAB, Mathematica, Version Control (SVN, Git), Linux (script automation/command line)**,** Bootstrap, HTML, Arduino, Scala, R **Beginner:** Data Mining, Machine Learning.
Agile methodology, Public Speaking/Presentation

## OTHER

**Language Proficiency**: Russian (first language), English (fluent), French (intermediate skill), Danish (intermediate skill)
**Interests**: Start-ups: New Venture Challenge, User oriented design, Graphical Design, Competitive swimming, Swing dancing, Bouldering, Russian literature, Learning about humanitarian projects