

## » Employment

### CDK Global(THL)

Software Developer

Sep 2016 – Current

- Abstracted and optimized resource, service and data access layers in an enterprise management system (Java, SpringData, Hibernate)
- Developed advanced search functionality, increased maintainability by making use of filter templates (AngularJS, Java, Spring, Karma+Jasmine, Mockito)
- Set up front end build processes, including index page generation, linting, minification, packaging, testing (Gulp)
- Implemented Catchment Area Search with Google Maps API (C#, JavaScript, JQuery, Ajax, HTML, CSS)
- Developed Website Validator Application with 99%+ accuracy (ASP.NET, SQL)

### Phoenix Interactive

Software Engineer

May 2016 – Aug 2016

- Developed web teller client application (ASP.NET, AngularJS, HTML)
- Implemented server-side mediation (C#, C++, SQL)
- Solved security defects with web API in a banking application (Owin)

### RedIron Technologies

Software Developer

Jun 2015 – Apr 2016

- Developed mobile POS software on ASP.NET (C#, LINQ, XML, Tortoise SVN)
- Improved server-client data exchange, reducing callbacks by 30% (SignalR, SOAP)
- Designed a more responsive front end UI (JavaScript, JQM, HTML5, CSS)
- Optimized back end, increasing data retrieval efficiency (C++)

### Azerbaijan National Academy of Sciences

Research Assistant, Institute of Radiation Problems

May 2014 – Aug 2014

- Researched Invariant of Abiyev Balances Squares and Cubes
- Investigated the application of Abiyev Balanced Squares and Cubes on Optimal Problems of Mathematics and Natural Sciences
- Formulated a correlation with the Invariant and the Periodic Table

### GeoGlobe

Web/Software Developer

May 2013 – Aug 2013, Jun 2014 – Aug 2014

- Developed and designed algorithms for 3D core sampling analysis software (C++)
- Developed web front end (PHP, HTML, CSS, JavaScript)
- Assisted system & database administration (SQL)

### iNotForProfit

Web Developer/Designer

Feb 2013 – Apr 2013

- User Interface/User Experience and Graphic Design (HTML, CSS)
- Web Development (JavaScript, HTML)

## » Projects

### Abiyev's Balanced Squares and Cubes

- Wrote most efficient program (C++, PHP) to date for generating Balanced (Magic) Squares and first ever program for Cubes. Currently can calculate the Magic Square and Cube of the largest order in the world in under 15 seconds (more at <http://www.askeraliabiyevev.com>)
- Co-authored research paper on Invariant of Abiyev Balanced Squares and Cubes and its correlation with Periodic Law, to be published (Abstract available at <http://askeraliabiyevev.com/Invariant.pdf>)
- Conducted research, prepared speeches for international conferences on Magic Squares and Cubes, and their application on Computer Science, Cryptography, Optimization problems with physicist-mathematician Prof. Dr. Abiyev
- Co-authored "The Etudes on Simple Proof Of Fermat's Last Theorem" research paper, to be published

### FitAdvice

- Application that connects users to coaches for exercise feedback
- Front end design (AngularJS, Bootstrap)
- Back end development, server/database interaction (ExpressJS, NodeJS, MongoDB)

## » Education

### University of Waterloo

Honours Bachelor of Computer Science 2014

Music Minor

President's Scholarship of Distinction

## » Summary

Experienced in web front end, middleware/back end development, algorithm formulation and research. Worked in small to large teams, as well as alone. Fast learner, currently exploring full-stack JavaScript. Passionate about solving challenging problems and efficient design, open to new languages and frameworks.

## » Skills

### Technical

C#, Java, JavaScript, C++, C, HTML, CSS, SQL, PHP, Python, XML

.NET, Spring, jQuery, AngularJS, Bootstrap

Algorithm formulation, optimization and analysis

Scientific research/writing

### Soft

Leadership, Presentation, Communication, Teamwork, Organization, Teaching (English, Mathematics, Computer Science)

Fluent in Russian, Turkish, Azerbaijani, moderate in French

## » Activities

2009 – 2015

- Executive at Waterloo Mathematics Society, UWaterloo Game Developers Club
- Ai Ki Do – 1st kyu, black belt; Soccer – Forward and Midfielder in U-18 team
- Self-taught guitar, piano, singing; guitarist, singer-songwriter in a band
- Composed, arranged, recorded, performed 50+ original songs