

# AINUR SMAGULOVA

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## EDUCATION

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**University of California, San Diego**  
PhD Computer Science

*Sep 2015 — Present*

- Advisor: Prof. Alin Deutsch
- Research interest: parallel computation of queries over graphs.

**University of California, San Diego**  
M.S. in Computer Science, 3.73/4.00

*Sep 2011 — June 2013*

- Master's Project: "Regular Reachability Queries On Large Data Graphs"

**East Kazakhstan State Technical University**  
Bachelor in Computer Engineering and Software, 3.88/4.00

*Sep 2005 — June 2009*

## EXPERIENCE

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**Bell Labs**  
*Research Intern*

*June - August 2017*  
*Murray Hill, NJ, USA*

- Scalable Data Processing Team, Mentor: Dr. Avinash Vyas

**GraphQL (now TigerGraph)**  
*Software Engineering Intern*

*June - September 2016*  
*Redwood City, CA, USA*

- A startup company working on a new Graph Analytics Platform.
- Query Language Team: development, bug fixes, testing for, and using the language in practice on GraphQL platform, converting relational schema into graph schema, rewriting SQL queries into graph traversal queries.

**TengizChevrOil LLP**

*April 2014 - September 2015*

- Business Intelligence/Data Integration team:
  - DI activities: Data Warehousing, Master Data Management, ETL, Business Modeling.
  - BI activities: Data visualizations, dashboards.
  - Involved in developing, testing, deploying and operational support of production application projects.

**GraphQL (now TigerGraph)**  
*Software Engineering Intern*

*July - November 2013*  
*Mountain View, CA, USA*

- Worked in graph analytics team to design, implement(C++) algorithmic solutions on graph analytics platform and to test(Python) implemented algorithms for correctness.
- Code repository maintained using git revision and source control tool. All code was reviewed by the team members, and participated in reviewing other team member's code as well.
- Wrote documentation on implementation approach(including comparison to the existing approaches) and detailed test plan of the assigned graph algorithm.

## SKILLS

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|------------------------------|---|
| <b>Programming Languages</b> | Java, C++, JavaScript, SQL, Python  |
| <b>Web:</b>                  | HTML, PHP, JSP, Ajax  |
| <b>Databases</b>             | MySQL, PostgreSQL, Microsoft SQL, Oracle, Neo4j(Cypher), MongoDB, Cassandra   |
| <b>Tools</b>                 | Eclipse, Microsoft Visual Studio, GitHub, antlr4  |
| <b>DI and BI tools</b>       | IBM DataStage(ETL), Kalido Information Engine (Data Warehouse solution), Kalido MDM (Master Data Management), Kalido Business Information modeler, Spotfire, Microsoft SSIS, Microsoft SSRS |

## TEACHING

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- CSE 232B Database Systems: Advanced Topics and Implementation, Winter 2017, Winter 2018
- CSE 132A Database System Principles, Fall 2017

## AWARDS

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**Bolashak Scholarship of the President of the Republic of Kazakhstan**

- Merit based award to study abroad