

# JULIA GARBUZ

Undergraduate at University of Minnesota pursuing a B.S. in Computer Science

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## EDUCATION

### Bachelors of Science, Computer Science

University of Minnesota, Minneapolis, MN — September 2015 – Present

B.S. in Computer Science (Big Data focused), Minors in Statistics and Management

Expected Graduation: **May 2019**

Relevant courses: Big Data Engineering and Analytics (NoSQL and Hadoop), Algorithms and Data Structures, Database Systems, Operating Systems, Program Design and Development, Regression and Correlated Data, Theory of Statistics

## EXPERIENCE

### INDUSTRY

#### Software Development Engineer Intern — May 2018 – August 2018

Expedia Group, eCommerce Platform, Financial Core Transaction Services (Chicago, IL)

- ▶ Created full-stack product, FORCE Echo, which processes over **1.5 million transactions per day** to provide the first aggregated and business-user friendly view of the financial processing engine.
  - ▶ Designed and implemented an **Amazon Aurora** schema.
  - ▶ Used **Spring Boot** to develop a **RESTful microservice**.
  - ▶ Implemented **CI/CD pipeline** for the FORCE Echo microservice.
  - ▶ Built an **Angular UI** for FORCE Echo.

FORCE Echo reduced the time engineers spent tracking down and resolving bugs in the financial system and provided business-oriented users with insights on month-end closures.

#### Technical Marketing Intern — June 2016 – August 2016

Dotcom Monitor (Minnetonka, MN)

- ▶ Designed and coded a pricing calculator in PHP/HTML which was essential to the internal sales staff and customer prospects.
- ▶ Assisted in the marketing of the launch of LoadView, a website, web-app, mobile, and API stress testing service.
- ▶ Developed and marketed a scholarship program for Women in Computing: <https://www.loadview-testing.com/scholarship/>

### RESEARCH

#### Undergraduate Research Assistant — May 2017 – August 2017

University of Minnesota, Dept. of Geography, Environment & Society (Minneapolis, MN)

- ▶ Assisted in the development of a domain-specific parallel computing language in Python.

### LEADERSHIP

#### Undergraduate Teaching Assistant — September 2016 – Present

University of Minnesota, Dept. of Computer Science & Engineering (Minneapolis, MN)

- ▶ Lead laboratory sections of 30–40 students and hold office hours.
- ▶ Mentor students on course concepts, including guidance on approaching and debugging labs and homework
- ▶ Maintain course website, attend and contribute to weekly staff meetings, and design and grade assignments.

Courses taught: Introduction to Computing and Programming Concepts (Python), Introduction to Algorithms and Data Structures (Java), Advanced Programming Principles (OCaml)

#### Rhythmic Gymnastics Coach & Choreographer — August 2013 – Present

NorthWest Rhythmic LLC (Plymouth, MN)

- ▶ Organize and manage the training and development of over 50 young girls ranging from ages three to fifteen and skill levels ranging from beginner to National Team level.
- ▶ Develop, design, and manage both competitive and recreational programs to help each competitive gymnast excel and help young athletes develop strength, balance, coordination, and listening skills.

## SKILLS

### Programming Languages:

- ▶ Java
- ▶ Python
- ▶ C / C++
- ▶ OCaml
- ▶ SQL
- ▶ R
- ▶ HTML / CSS / Typescript

### Frameworks/Tools:

- ▶ Git
- ▶ Spring Boot
- ▶ Swagger
- ▶ Angular
- ▶ Docker
- ▶ Jenkins
- ▶ Bootstrap
- ▶ npm

### Languages

- ▶ **Russian:** bilingual proficiency
- ▶ **French:** elementary proficiency

### Miscellaneous

- ▶ **Licensed Zumba Instructor:** ZIN Member since June 2016. Completed Basic 1, Zumba Kids, Zumba Kids Jr Trainings.

## ACTIVITIES

### Association for Computing Machinery (ACM):

- ▶ Member since 2017
- ▶ Participated in MinneHack 2018

### MIS Case Competition Team:

- ▶ Under the Carlson School of Management's Information and Decision Sciences department
- ▶ Participant (2017–2018): **Finalist at CaseIT 2018**, International MIS Case Competition, in Vancouver, Canada (finished in top 4 of 16 universities from 9 countries).
- ▶ **Recruiter** (2018–2019): doubled number of applicants from previous year

### Rhythmic Gymnast:

- ▶ **Four-time USA National Team Member** (2010–2013)
- ▶ Multi-time national and international medalist