

[JULIA GARBUZ]

Pursuing B.S. Computer Science | Seeking Full-Time Big Data/Software Engineering Role

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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 Focus), Minors in Statistics and Management

Relevant courses: Distributed Systems*, Big Data Engineering and Analytics* (NoSQL and Hadoop), Operating Systems*, Security*, AI, Algorithms & Data Structures, Databases, Formal Languages & Automata Theory, Regression & Correlated Data, Time Series & Analysis*

Expected Graduation:

December 2019

* = Graduate-level course work

[EXPERIENCE]

[INDUSTRY]

Software Engineer I — July 2019 – Present

Grubhub Inc, Delivery Team with focus on Driver Engagement (Chicago, IL)

- Expand on existing functionality of **Spring Boot** microservices, update and interact with **Cassandra** tables, and build new **REST** and **RPC** endpoints.

Software Development Engineer Intern — May 2018 – August 2018

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

- Created full-stack application, **FORCE Echo**: the first aggregated and business-user friendly view of the financial processing engine which processes over **1.5M transactions per day**.
 - Designed 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 developed a pricing calculator in **PHP/HTML** essential to customer acquisition.
- Developed and marketed a scholarship program for Women in Computing.

[ACADEMIA]

Undergraduate Research Assistant — June 2019 – Present

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

- Assist Dr. Maria Gini's "Grand Challenges" research project by developing a software toolkit in **Python** using **Pandas**, **NumPy**, and **Matplotlib** for processing and analyzing raw physiological time series data.

University of Minnesota, Dept. of Pharmaceutical Care & Health Systems (Minneapolis, MN)

- Assist Dr. Maria Gini and Dr. Serguei Pakhomov with survey design and preliminary data collection for developing a conversational agent training technology for the Minnesota Department of Human Services.

NSF/REU Undergraduate Research Fellow — June 2019 – July 2019

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

- Assisted Dr. Abishek Chandra's Distributed Systems Computing Group by developing an **Angular UI** for "an edge-based framework for cooperation in internet of things applications".

Instructor at Dr. Maria Gini's Summer Computing Academy — June 2019

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

- Instructed 35 – 45 middle to high-school aged girls basic programming concepts as well as assisted with projects and labs using **Python**, **Ozobots**, **Arduinos**, etc.

Undergraduate Teaching Assistant — September 2016 – December 2018

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

- Mentored students on course concepts (including guidance on approaching and debugging labs and homework) as well as on course selection and the technical interview preparation.
- Led lab sections of 30-40 students, attended weekly TA/instructor meetings, held office hours, and designed, reviewed, and graded assignments and exams.

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

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]

Rhythmic Gymnastics Coach & Choreographer — August 2013 – August 2019

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
- HTML / CSS / Typescript
- SQL
- R
- Scala

Frameworks/Tools:

- Git
- Spring Boot
- Swagger
- Docker
- Jenkins
- Pandas/NumPy
- Angular
- npm
- Dask
- GCP
- AWS
- Apache Thrift
- Apache Kafka
- Apache Spark
- Hadoop/HDFS
- Apache Hive

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.

[PROJECTS]

A Simple Distributed File System — April 2019

Course Project: Distributed Systems

- Using **Java** using **Apache Thrift**, implemented a simple **DFS** (using quorum-based protocol), and evaluated performance on different query-types and read/write quorum distributions.

Reddit Comment Sentiment Analysis — Oct. 2018

Course Project: Big Data Engineering and Analytics

- Designed, planned and built a data pipeline for ETL batch-processing of Reddit user and comment data into **JanusGraph** (on **GCP**) for analysis (via **Gremlin**).

[ACTIVITIES]

Girls Who Code @ UMN

- Vice President of University of Minnesota chapter since December 2018

Association for Computing Machinery (ACM):

- Member since 2017
- MinneHack '18 (Hackathon) Participant

TechLadies@:

- Member since 2018

MIS Case Competition Team:

- Finalist at **CaseIT 2018**, International MIS Case Competition, in Vancouver, Canada (finished in top 4 of 16 universities from 9 countries).
- Participant in **UW Global Business Case Competition 2019** in Seattle, Washington.
- Assisted with recruitment (2018-2019): doubled number of applicants of previous year

Rhythmic Gymnast:

- 4x **USA National Team Member** (2010-2014)
- Many-time national and international medalist

Guest Coach and Choreographer:

- Invited by USA Gymnastics as guest expert to Elite Squad Training Camps