[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

Expected Graduation:

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

December 2019

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), Al, Algorithms & Data Structures, Database Systems, Operating Systems, Formal Languages & Automata Theory, Regression & Correlated Data, Time Series & Analysis*

* = Graduate-level course work

[EXPERIENCE]

[INDUSTRY]

- May 2018 - August 2018 Software Development Engineer Intern —

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

- Created full-stack product, 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]

NSF/REU Undergraduate Research Fellow — June 2019 - Present

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

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

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 for processing and analyzing raw physiological time series data.
- Assist Dr. Maria Gini and Dr. Serquei Pakhomov with preliminary work on developing a conversational agent training technology for the Minnesota Department of Human Services.

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 laboratory 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 - 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 SOL Python C/C++ Scala
- **OCaml** HTML / CSS / Typescript

Frameworks/Tools:

- Git Dask
- Spring Boot GCP Swagger
- **AWS** Angular Apache Kafka
- Docker Apache Thrift
- Jenkins Apache Spark
- Bootstrap Hadoop/HDFS
- npm 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 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 vear

Rhythmic Gymnast:

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