

OLGA BESSONOVA

Software Engineer

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[LinkedIn](#) [Website](#) [GitHub](#)

SKILLS

Programming Skills: Python, React, Redux, JavaScript, TypeScript, HTML, CSS, SQL, SQLite3, PostgreSQL, R, SAS, Mongoose, MongoDB, Node.js, Express.js, Ruby, Ruby on Rails, Webpack, jQuery, Git, GitHub, AWS, Google Maps API, OpenAI API.

Statistical Skills: Regression Analysis, Predictive Modeling, Time Series, Multilevel Models, Bayesian Analysis, Machine Learning/AI, Large Language Models (LLMs), A/B testing, and data visualization, with expertise in creating dashboards for business intelligence and automated reporting.

WORK EXPERIENCE

Outlier AI / Software Engineer / Remote, USA

Jan 2024 – Present

- Trained and evaluated LLMs, reviewing Python code and reasoning across multiple domains.
- Performed code and logic audits on peer data to ensure consistency, precision, and compliance with evaluation standards.
- Designed and assessed complex programming, math, and analytical tasks to strengthen model performance and accuracy.

Alaric Flower Design / Software Engineer / New York City, USA

Sep 2023 – Present

- Led the development and continuous optimization of the company's Shopify page, resulting in a 30% increase in online sales.
- Conceptualized and executed innovative email marketing campaigns, boosting customer engagement and conversion rates by 20%.
- Leveraged technical expertise to elevate the digital presence, enhancing the user experience and driving a 15% increase in web traffic.

University of Michigan / Data Scientist / Ann Arbor, Michigan, USA

Sep 2017 – May 2019

- Designed and trained multilevel logistic models, using Python, R, and SAS, analyzing user behavior on a dating site to find trends and insights.
- Executed comprehensive statistical significance tests for random and fixed effects, ensuring the robustness and accuracy of the analysis.
- Interpreted data findings and created compelling visualizations, leading to publications in [Science Advances](#).

Conduent Inc. / Data Analyst / Detroit, Michigan, USA

May 2016 – Sep 2017

- Enhanced data analysis efficiency 7-fold by developing automated R and SQL solutions, greatly reducing manual effort and processing time.
- Implemented stringent database quality checks that decreased error rates by 10% improving overall data integrity and reliability.

University of Michigan / Graduate Student Instructor / Ann Arbor, Michigan, USA

Sep 2014 – May 2016

- Developed advanced R scripts that accelerated the grading process by 300% and enabled the inclusion of more complex problem sets.
- Led interactive seminars for 20+ students, fostering an engaging learning environment that enhanced student comprehension and performance.

EDUCATION

UNIVERSITY OF MICHIGAN (Ann Arbor, Michigan, USA)

2014 - 2016

Master of Science in Applied Statistics
Grade Point Average: 3.96 / 4

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY (Moscow, Russia)

2011 - 2013

Master of Science in Economics
Grade Point Average: 4.75 / 5

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY (Moscow, Russia)

2007 - 2011

Bachelor of Science in Applied Physics and Mathematics
Grade Point Average: 4.4 / 5

PROJECTS

Ford Retirement System - SQL, R:

- Enhanced and maintained a major American automobile manufacturer's retirement system, optimizing data pipelines and reporting workflows.

TRIP CLUB - MongoDB, ExpressJS, ReactJS, NodeJS (MERN)

[live](#) | [github](#)

- Led frontend development and UX, collaborating with two engineers to deliver a production-ready app in 3 weeks.
- Integrated Mongoose ODM with MongoDB to create a scalable backend architecture with robust model validations and database constraints.

AirBCB - JavaScript, ReactJS, Ruby on Rails, Redux, PostgreSQL

[live](#) | [github](#)

- Implemented secure user authentication (CSRF + Bcrypt) and integrated Google Maps API & AWS S3 for property listings.

Bunny Hop - JavaScript, CanvasJS, CSS, HTML

[live](#) | [github](#)

- Designed game logic to implement collision detection and gravity, and developed character animations, enabling dynamic gameplay.

INTERESTS

Certifications: Web Development - 16-week - App Academy (Software Engineering School), Project Management Expert degree (PMP standard), CFA level 1.

Interests: Data analysis, finance, dancing, video editing, drone flying, movies, and traveling.

Languages: English (Proficient), Russian (Native), Italian (Beginner).