


Dariia Vyshenska

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PROFESSIONAL EXPERIENCE

Software Engineer, Creator, SmoothSail (smooth-sail.github.io)  2023

SmoothSail is an open-source feature flag management tool specializing in decoupling feature deployment & release and audience targeting. Containerized with Docker.

- Engineered a scalable, event-driven architecture for an open-source feature flag management tool that consists of RESTful API, CRUD application, admin dashboard, reverse proxy streaming service, and software development kit (SDK) for Node.js backend applications.
- Designed and built a RESTful API and a CRUD application, leveraging ORM libraries for efficient data management.
- Architected and contributed to implementing a resilient, asynchronous communication channel between SmoothSail components using NATS JetStream message broker.
- Contributed to developing real-time event notifications using EventSource API and server-sent events.
- Enhanced SDK security by designing and implementing key encryption protocols.
- Contributed to the designing and developing of the user interface.
- Authored a comprehensive case study detailing engineering challenges and solutions: smooth-sail.github.io/case-study 
- Collaboratively conceived, developed, and refined SmoothSail with a remote team of 4 developers across the US using an agile workflow.

Software Engineer, Self-employed 2020 – 2023

Developed personal and open-source applications, including:

- *Request Bucket* - Tool for collecting and debugging webhooks (DO Droplet, Nginx, MongoDB, PostgreSQL, Node.js, Express, React).
- *ToDo Tracker*: A web application for tracking tasks (Ruby, Sinatra, PostgreSQL, ERB).
- *MiniMarket*: An e-commerce shopping cart (React, Express, Node.js, MongoDB).

Data Scientist, Postdoctoral Research Fellow, 2019 – 2023

DOE Joint Genome Institute

- Led the development of an innovative HPC Microbiome data analysis pipeline and closely worked with the software development team to ensure its implementation at the IMG/M web portal.
- Handled 3 multi-disciplinary collaborative projects to generate and analyze high-throughput genomic data, which led to 2 research publications.
- Actively engaged in scientific communication through workshops and conferences; created and coordinated the JGI Journal Club with cross-functional research teams.

Computational Biologist, Graduate Research Assistant, 2014 – 2019

College of Pharmacy, Oregon State University

- Created scientific software tools, including those tailored for execution on HPC clusters, to enhance the efficiency of data analysis workflows.
- Maintained 3 diverse collaborative projects with cross-functional teams from Norway, Brazil, and the US, which led to 5 research publications.
- Guided a team of 3 undergraduate students that won 9 awards and scholarships with \$25,700 in total reward.

SKILLS

Programming Languages & Frameworks: Ruby, JavaScript, TypeScript, Go, Python, R, Bash, SQL, HTML/CSS, Sinatra, Ruby on Rails, Express, Jest.

Technologies & Tools: Node.js, jQuery, React, HTTP/HTTPS, SSE, OOP, ERD, ORM, REST APIs, PostgreSQL, MongoDB, Conda, Bioconductor, Git/GitHub, Docker, Nginx, Postman.

Systems & Platforms: Linux/Unix, HPC, Digital Ocean, AWS, Heroku, Slurm, SGE.

Other: Statistical Analysis, Data Mining, Big Data, Network Analysis, Data Visualization, Scientific Writing.

EDUCATION

Launch School 	2020 – 2023
Software Engineering & Full-Stack Web Development	

Oregon State University	2014 – 2019
Ph.D. in Pharmaceutical Sciences, Minor in Biological Data Science	

Taras Shevchenko National University of Kyiv	2008 – 2010
M.S. in Biophysics	

AWARDS

Travel Award , <i>Oregon State University</i>	2019
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Holt Graduate Research Achievement Award , <i>Oregon State University</i>	2018
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Best Poster Award , <i>Annual Rising Lecture Series and Research Retreat</i>	2017
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Cum Laude , <i>Taras Shevchenko National University of Kyiv</i>	2010
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