Dariia Vyshenska

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PROFESSIONAL EXPERIENCE

Software Engineer, Creator, *SmoothSail (smooth-sail.github.io)* 🔗   2023 – present
- Built an open-source, scalable, self-hosted feature flag management platform that enables developer teams to release/rollback features with a toggle and create reusable segments for targeting users during canary and ring rollouts.
- Designed and developed a RESTful API and a CRUD application, leveraging ORM libraries for ACID-compliant data management to meet user demands.
- Architected and contributed to implementing a resilient, asynchronous communication channel between SmoothSail components using NATS JetStream message broker.
- Contributed to building real-time event notifications using EventSource API and server-sent events, allowing horizontal scaling to accommodate increased application load.
- Enhanced SDK security by implementing key encryption protocols that support 500 authorization requests per second.
- Contributed to the design and development of UI that facilitates using SmoothSail by non-technical stakeholders.
- Authored a comprehensive case study detailing engineering challenges and solutions: smooth-sail.github.io/case-study 🔗
- Collaboratively conceived, wrote, 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. Selected projects:
- *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, *DOE Joint Genome Institute*   2019 – 2023
- Led the development of an innovative HPC Microbiome data analysis pipeline and closely worked with the software engineering 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 peer-reviewed 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 collaborative projects with cross-functional teams from Norway, Brazil, and the US, which led to 5 peer-reviewed 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, *Oregon State University*   2019

Holt Graduate Research Achievement Award, *Oregon State University*   2018

Best Poster Award, *Annual Rising Lecture Series and Research Retreat*   2017

Cum Laude, *Taras Shevchenko National University of Kyiv*   2010