Arina Vasiljeva

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ABOUT MYSELF

I am a 2nd year Mechatronics Engineering student at the University of Southern Denmark (SDU) and an experienced software engineer endlessly inspired by a dream for more accessible technology and user interfaces. Solving complex problems is one of my favourite ways of learning and working. I have completed an engineering-focused secondary school programme which prepared me well for my Mechatronics Engineering studies. While I am a little introverted, I suppose I can call myself open-minded. I have great leadership skills, and I value honesty and making my work valuable for my community.

WORK EXPERIENCE

⊞ ECO SOLUTIONS
Website https://ecosolutions.dk

SOFTWARE ENGINEER – 01/07/2025 – CURRENT

In this role I am working on a project aimed at expanding cross-border cooperation between Danish and German businesses. I was entrusted to use this project as a learning basis to expand my area of expertise into the Angular framework. The project follows the stack of Angular, Express, and MongoDB and I have worked on the following tasks as part of this project:
- Designed UI components and their implementations.
- Worked on accessibility features.
- Designed backend infrastructure and mutations.
- Implemented user-friendly action flows to ensure ease of use and user retention.

Furthermore in this role I have been exposed to the company's clients' .NET (C#) projects and systems. I am currently applying my C# skills to learn and gain further exposure to .NET systems and contribute positively to the clients' projects.

⊞ LUDUSXR
Website https://ludusxr.com

FULL-STACK SOFTWARE ENGINEER – 01/11/2024 – 30/06/2025

In this role I worked on 2 projects that fundamentally impact both formal education and lifelong learning initiatives. With the task of expanding access to education I have:
- Built from scratch an online-platform (Next.js, React, PostgreSQL, web-sockets, Redis) for skill sharing among seasonal workers and professionals in niche fields that are seldom covered by formal education programmes.
- Built from scratch a complex suite of backend infrastructure for a VR app for interactive language learning in classrooms and at home. My responsibilities included managing all database infrastructure (PostgreSQL) including load-balancing through read-replicas, optimising the schema and queries, as well as implementing and maintaining a gateway server.
- Built from scratch an administration dashboard (Next.js, React) for displaying and analysing data as well as moderating the community of the previously mentioned VR app.
- Implemented access to various payment systems for our customers through Stripe.
- Implemented accessible and modern user interfaces that provided a smooth experience to all customers and site visitors.

EDUCATION AND TRAINING

01/09/2024 – CURRENT Sonderborg, Denmark
BSC IN ENGINEERING, MECHATRONICS University of Southern Denmark

Website https://sdu.dk | **Level in EQF** EQF level 6

LANGUAGE SKILLS

Mother tongue(s): **RUSSIAN** | **LATVIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
DANISH	B1	B1	B1	B1	B1

SKILLS

Web Development

React/Next.js | Angular | PostgreSQL | SQL | MongoDB | Redis / Socket.io | Docker | TypeScript/JavaScript | GitHub | Git

Embedded Systems Design & Development

C | C++ | ATMega328p | Circuit Board Design | Circuit Analysis

Other Engineering and Digital Skills

Python / OOP | C,C++,C#,.NET | Linux System Administration | Siemens NX | Fusion-360 | Microsoft Office

HONOURS AND AWARDS

08/05/2024
Level III Research Diploma (III pakāpes Diploms par izstrādāto un aizstāvēto zinātniskās pētniecības darbu) – University of Latvia (Latvijas Universitāte)

A diploma for successfully defending a research paper at a regional conference in the "Natural sciences" section, "Programming" discipline: *The Influence of AI Help on the Productivity and Efficiency of Problem-Solving (Mākslīgā intelekta palīdzības ietekme uz problēmrisināšanas produktivitāti un efektivitāti)*

12/07/2024
The Prime Minister's Note of Gratitude (Ministru Prezidenta Pateicības Raksts) – The Prime Minister of the Republic of Latvia (Latvijas Republikas Ministru Prezidents)

An award for exceptional educational achievements.

VOLUNTEERING

28/03/2025 – CURRENT
The Als Rocketry Club Systems Administrator

As the Systems Administrator of the club I am tasked with maintaining all digital systems and mediums, including, but not limited to:
   • The club's website
   • Inventory management system
   • Internal communication mediums
Furthermore, alongside my primary role, I develop and maintain rocket tracking and launch control systems as a member of the Avionics department of the club. This part of my work primarily consists of building desktop rocket tracking/control applications and radio communications systems, as well as the data feeds supplying them.

Link the-arc.dk

24/05/2024 – CURRENT
VATSIM Latvia vACC ATC Training Director, Technical Director

In this role I am leading the Training Department and the Technical Department of the Latvian Subdivision of the VATSIM Network (a US-registered 501 (c) 3 organisation). Over the course of my tenure I have accomplished the following:
   • Revamped and created from scratch a new learning management system for our students and mentors using a simple stack of Next.js with PostgreSQL and TailwindCSS for styling
   • Re-imagined the public image of the subdivision by designing a new, accessible and easy-to-use website for the subdivision at lv-vacc.org
   • Improved the flow of the queue of students and revamped the training programme to optimise the efficiency of personal training sessions for students
   • Maintained an extensive array of documentation for our students and staff
   • Continued being the external point of contact for the subdivision representing it both within and beyond the VATSIM Network

01/05/2021 – 24/05/2024
VATSIM Latvia vACC Event Assistant and Senior Member of the Training Department

In this role I handled communications and development of documentation for the Latvian subdivision of the Virtual Air Traffic Simulation Network (VATSIM Inc., a US-registered 501 (c) 3 organisation). In this role I worked on:
   • Arranging events with neighbouring subdivisions
   • Handling communications with our real-life counterpart (Latvijas Gaisa Satiksme, the ATC authority in Latvia)
   • Assisted in coordinating the work of the Training Department