Artur Brodovic

Software Developer

▬ Contacts

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▬ Education

2024-2026 (expected) — **MSc Computer & Embedded Systems Engineering** / TU Delft

Relevant Coursework:

- Computer Engineering Track: Studied modern computer architectures with a focus on RISC-V, gaining a strong foundation in digital design using Verilog.
- IC Design Specialization: Advanced understanding of linear circuit theory and digital design, applying it later in a complex digital VLSI design project.
- Hardware dependability Specialization: Comprehensive understanding of fault modeling and digital circuit testing techniques, along with learning about hardware security principles.

2020-2024 — **BSc Computer Science and Engineering** / TU Delft

Relevant Coursework:

- Specialized in Systems Track, focusing on Digital Design and Operating Systems, with an emphasis on low-level architecture and design principles.
- Developed a strong foundation in Complexity Theory and Algorithm Design, including hands-on experience in analyzing and solving NP-hard problems.
- Gained expertise in Software Engineering Best Practices, including OOP, Design Patterns, and Agile development methodologies.

2019-2020 — **Vilnius School of AI**

Joined an AI-focused community in Lithuania, where I started learning AI and data science. Gained first experience with technologies such as Pytorch, Scikit-learn and Pandas. Started participating in competitive AI projects on the Kaggle platform.

▬ Work Experience

2023-2025 — **Product Specialist:** Ubiops

I was a Product Specialist at Ubiops, an AI deployment and orchestration company, where my role involved a broad set of tasks:

- Extending deployment platform to support ARM-based nodes.

- Integrating AMD GPUs and Graphcore IPUs with autoscaling algorithm.

- Managed complex Docker container infrastructure over a range of diverse machines.

- Demonstrating latest LLM inference and finetuning on Ubiops platform.

2023 **Software Engineer Intern, IoT Predictive maintenance project:** MakeTek/Eaglescience

We developed a failure detection system for elderly care tools in a 5-person team, feturing:

- Sklearn-based anomaly detection with online learning, deployed on RaspberryPi devices.

- Centralized dashboard powered by Django backend and React web app.

2022-2023 **Full stack developer Django/ReactJS:** Everspring

I worked as a part-time developer at a drop-shipping company that directly connects retailers and growers. During my work, I:

- Worked on a complex architecture comprising 30+ microservices within a hybrid team of remote and on-site developers.

- Architected a high-performance plugin using Django, ReactJS, GraphQL, and JWT, which distributed over 1000 products to hundreds of Shopify stores concurrently while processing customer orders.

2021-Present **Software Engineer / Mentor:** Dream Team Epoch

I was a Software engineer at AI focused TU Delft dream team. There I got experience of solving different deep learning challenges and used Computer Vision, NLP and Reinforcement learning techniques under a strict time constraints. We competed in worldwide AI competitions on Kaggle and other platforms and were ranked among best teams on the leader board:

- Deep Chimpact: Depth Estimation for Wildlife Conservation (Top 4%)

- Task Mate Kenyan Sign Language Classification Challenge (Top 8%)

- Hulkshare Recommendation Algorithm Challenge (Top 2%)

Later I remained engaged in a team as Mentor, providing theoretical insights and coding advice to following teams, helping them achieve victories in several competitions.

2017-2018 **Full-stack developer** : Freelance

During summer breaks, I did freelance projects that involved enhancing websites using PHP, WordPress and JavaScript.

Technical Skills

Programming languages: Python, Java, C++, C, PHP, JavaScript, Typescript, Go, Verilog/SystemVerilog

Key Technologies: Django, ReactJS, PyTorch, Linux, Docker, Cadence Toolset (Calibre, Genus, Modus, Xcelium), Verilator, JTAG

Markup: HTML, CSS, LaTeX

APIs: REST API, GraphQL

Cloud services: AWS, GCS

Non-technical

- Human Languages:

  - English (Fluent)

  - Lithuanian (Fluent)

  - Russian (Native)