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https://dmytrobrazhnyk.wordpress.com/

- Awards and recognition in algorithmic contests affirm my standing among the top 0.18% of proficient computer scientists. In essence, within a company of 50,000 employees, only 90 individuals can showcase comparable or superior talents.
- Exceptional skills in Computer Science, Mathematics, and Natural Sciences
- Master's degree in Artificial Intelligence
- 16 years of experience in development of IT technologies
- 14 accomplished releases in leading roles
- Hands-on experience of designing and implementing solutions in following areas:

Backend, Cloud, Microservices, DevOps, Security Engineering, Reliability Engineering, Data Architecture, High-Loaded Systems, Highly Performant Systems, Cloud Cost-Optimization, Near Real Time solutions, Quality Architecture, Artificial Intelligence, Machine Learning, IoT, Frontend solutions

- Recent accomplishment: Adopted AI model to predict wellbore equipment malfunctioning.
- Another recent accomplishment: Reduced the cost of CosmosDB usage from \$960 000 a year to \$48000 a year.

## **Leadership Developed in Competition:**

- **Effective communication**: +16 years of production experience in consulting in different customer facing and leading roles with strong emphasis on collaborative teamwork and customer-focus.
- ❖ Soft skills: excellence attested in algorithmics contests, demonstrates my exceptional abilities in problem-solving, critical thinking, attention to details. Furthermore, effective time-management, unwavering perseverance, and stress tolerance became evident as I showcased results in these competitions.
- Technical Domains: strong analytical thinking in connection with algorithms is essential for the following technical domains: Software Development and Software Architecture, Research and Development, Data Science, Machine Learning and Artificial Intelligence, Cybersecurity, Game Development.

### **Employment Summary**

- Architect/Cloud Developer at Mastech Digital, May 2023 now
- Cloud Software Architect at Carbo Ceramics, Jan 2023 May 2023
- Solution Architect at EPAM, Sep 2012 Jan 2023
- Lead Software Engineer at Astound Commerce, Jan 2012 Sep 2012
- Lead Software Engineer at TeamDev, Sep 2008 Jan 2012
- Java Software Engineer at SoftLine, Apr 2007 Sep 2008

### **Technical Proficiencies**

Languages Java, Kotlin, Scala, JavaScript, Python, C++ and Rust Lang. Markup languages: HTML(CSS), JSON,

XML, YAML, MD, etc. Basic knowledge: Assembler x86, C#.NET, Lisp, Go Lang, Verilog(VHDL),

Pascal, VB6.

Data Architecture:

RBDMS DBA, specifically PostgreSQL. Experienced in NoSQL data modeling and optimization

(particularly Cosmos DB), Oracle, MySQL, SQL Server, MS SQL, MongoDB, Cassandra, Elastic Search, Redis, Gemfire. Spark, Confluent, Flink, ETL Talend, Azure Data Factory, DeltaLake

Cloud Architecture: Certified AWS SA Architect. Experience with Azure. Deep knowledge of Kubernetes, etc. Azure

Blob, AWS S3, AWS DynamoDB, Azure Databricks, AWS EC2, Azure AKS, AWS SQS. Docker. PaaS,

Pivotal Cloud Foundry, AWS Lambda, Heroku, 12.

Front-End Architecture: Swing, HTML, CSS, ReactJS, Angular, TypeScript, WebRTC, WebGL(GLSL) and WebSocket.

Back-end Architecture: Spring Boot, Struts MVC, Spring MVC, Spring Data, Hibernate, JPA, MyBatis, J2EE, JAX-RS, sI4j,

JDBC, REST API, Swagger, GraphQL, ProtoBuf(gRPC), SOAP, Camel ESB, Junit, Mockito, EasyMock,

Microservices Spring Boot Cloud, Kubernetes, Docker, Linkerd, Istio

CI/CD/laaC: Jenkins, Helm, Terraform, SonarQube, Fortify, Git, GitHub, GitLab, BitBucket, SVN, Mercurial

System Monitoring: ELK(ElasticSearch/Logstash/Kibana), Grafana/Prometheus, Splunk

Cyber Security: JWT/JWE, SAML, OAUTH, OWASP TOP 10, CVE SCANS, X509, mTLS, Cloud Security, Azure WAF,

Azure Defender

Al/ML/Data Science Eigen, numpy, TensorFlow, PyTorch, Jupyter Notebook, Azure ML, pyspark, pandas, scikit-learn,

matplotlib, Keras (Neural Network API)

Rust stack serde, serde-json, actix-web, azure\_core, azure\_data\_cosmos, tracing, tracing-actix-web

C++ stack stl, atl/mfc, zeromq, boost, opencv, ffmpeg, GTest, protobuf, OpenGL(glfw, glew), DirectX, CMake

Methodologies Agile, Scrum, Kanaban, TOGAF, TDD, XP, CI/CD, UML, C4 model, 12 Factor, SOLID/GRASP/GoF.

## **Professional Accomplishments**

Mastech Digital – pods.com Architect/Cloud Developer May 2023 - Now

Joined as Azure cloud architect/developer, to build Microservice platform from ground in Azure cloud using cloud native technologies. Led a cross-function team built of QA automation, DevOps, Java engineers, DBA, Monitoring team from day zero till production release.

- Made a discovery and proposed a technical design with Azure Cloud stack.
- Implemented most critical party and documented detailed playbooks with script for IT departments and DevOps to deploy system into cloud.
- Leveraged Azure ADF ETL solution to run the initial data bootstrapping and subsequent data quality analysis.
- Provided guidance about best practices for performance and system security.

#### Carbo Ceramic Inc/StrateGen Chief Architect

Jan 2023 - May 2023

Directed project discovery, collaborating with stakeholders to identify key opportunities, leading a team of 15 engineers. Conducted a thorough software architecture review, uncovering critical risks jeopardizing data security and privacy. Negotiated budget allocation based on risk assessment and company constraints. Addressed concerns and quality attributes in the roadmap: DR/BCP, security, availability, reliability, performance, and usability.

- Saved \$60K a year by reviewing cloud resource utilization and down-scaling allocated capacity.
- Saved \$200k/year in enterprise software costs by proposing cost-effective MicroServices and Cloud Native solutions.
- Presented findings to the CEO, prioritized risks, and created a proactive roadmap for long-term stability.
- Made impactful technical decisions: enhanced cloud security, implemented best practices, and executed data migration from SQL Server to MongoDB.

Trained AI/ML models to predict equipment failures.

**EPAM - Walmart**Key Engineer/Architect

Apr 2020 - Jan 2023

Joined as the Architect/Key Engineer, driving the replacement of legacy software with highly scalable and reliable services. Managed a colossal 3TB database, effortlessly processing 150 million daily updates, including rapid spikes within 30-60 minutes. Enforced exceptional data quality in this mission-critical system, handling massive data volumes.

- Reduced the cost of CosmosDB processing from \$960 000 a year to \$48000 a year, by introducing a set of practices like auto-scaling, scale scheduling, batch processing, and doing proper data modeling.
- Spearheaded the implementation of groundbreaking services from scratch, leading the team to success.
- Pioneered a service prototype for seamless team-wide adoption.
- Orchestrated end-to-end solutions, meticulously overseeing project deployment and maintenance.
- Successfully deployed and managed an entire service cluster, flawlessly handling the massive load of 150 million daily updates.
- Slashed hardware costs by a staggering 10x, leveraging auto-scaling and optimizing data modeling during idle database periods.
- Enforced top-notch coding practices like TDD and Peer-review.
- Crafted an unyielding service framework, effectively separating business code from infrastructure intricacies.
- Established real-time monitoring, ensured NFR compliance, and implemented rigorous quality processes, impressing stakeholders with system stability.
- Adopted big data stack to implement meticulous data quality processes, guaranteeing system reliability and proactive monitoring.

 Authored impactful technical documentation, comprehensive architecture documents, and insightful business analysis.

EPAM - Anadarko Mar 2019 – Apr 2020

Tech Lead/Architect

Extended Microservice framework with OAuth support for authentication/authorization. Re-architected a core component in the IoT system to enhance reliability.

- Developed an extension to integrate services with Microsoft Azure AD and OAuth in the Company Java framework.
- Identified critical vulnerabilities in the open-source Microsoft OAuth SDK.
- Resolved a year-long issue with the Connection Pool setup, saving 20 hours per month.
- Optimized interaction with MS SQL Database through batch processing and query rewriting.
- Achieved real-time SLA of <5 minutes, eliminating lag times of hours or days.
- Implemented system metric monitoring, alerts, and presented KPI improvements to stakeholders.
- Reworked application integration with RabbitMQ, introducing architecture patterns like DeadQueue and Priority pools.
- Improved integration with 3rd-party service through client-side throttling, ensuring stability.
- Ensured months of system stability without downtime, eliminating daily server downs.
- Enhanced application core/thread/pod scalability.
- Improved application processing reliability and introduced real-time monitoring of data quality.
- Optimized data gap analysis for better performance.

EPAM - Vanguard Sep 2018 – Mar 2019

**Solution Architect** 

Led Vanguard's digital transformation. Developed a comprehensive plan and roadmap for migrating existing Monolithic applications into Microservices.

- Led a team to prototype a new Microservices-based platform for future migration.
- Successfully sliced the first set of Monolith into Microservices under the team's leadership.
- Resolved critical performance and reliability issues.

EPAM - Datalex, Ukraine

Scrum Master/Development Lead

Apr 2016 - Sep 2018

Re-architected a heavily over-engineered EJB/JBoss monolith system, 10 years old with 400 engineers constantly pushing to the same repository and supporting 50 customizations for different customers.

- Built a core team of six developers in the Kharkiv office and scaled up to 50 people.
- Contributed towards team execution of two impactful releases for COPA and JetBlue airlines, delivering valuable solutions and driving positive outcomes for both organizations.
- Developed training space and documentation for newcomers.
- Established Agile process for distributed L3 Support and served as Scrum Master.

## **Education Summary**

- Master's degree in Artificial Intelligence
   Kharkiv National University of Radio Electronics, Ukraine, 2017
- Bachelor's degree in Computer Science
   Kharkiv National University of Radio Electronics, Ukraine, 2009

#### **Awards**

- 2014 Hackathon best computer game award for Quantum game (Led a team to success)
- 2005 3rd place(bronze) award in country wide Student Olympiad in the discipline "Informatics" in the category
  of computer
- 2003 1st place award in regional Informatics Olympiad for 11th school grade.
- 2003 Selected as the top 15 best in Kharkiv Oblast Informatics Olympiad before the All-Ukraine stage.
- 2002 1st place award in regional Informatics Olympiad for 10th school grade.
- 2001 3rd place award in regional Informatics Olympiad for 9th school grade.

# **Training & Certifications**

- 2023 TensorFlow and Machine Learning Udemy online courses
- 2019 CloudFroundry on edX
- 2018 Certified AWS Solution Architect
- 2018 AWS Solution Architect Udemy online courses
- 2018 EPAM Software Architecture School training
- 2011 Demandware ecomm training