

Andre Podnozov

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KEYWORDS:

GenAI, GPT-4, Copilot, Transformers, token embedding, multi-head attention, residual stream, LLM, Prompt engineering, AI/ML/Data Science, Data Engineering, Azure Machine Learning, Databricks, GCP Vertex AI, Kubeflow, Jupyter notebooks, Pandas, scikit-learn, PyTorch, Keras, TensorFlow, supervised & unsupervised learning, regression & classification models, backpropagation, Computer Vision, Deep Learning, Convolutional Neural Networks, AutoML, hyperparameter tuning, feature engineering, MLOps, online & batch inference, AI on the Edge, Internet of Things, IoT Edge, Azure Architecture, GCP Solutions Architecture, Cloud Solutions, Cloud Trainer, C#, .NET, Python, Rust, Academic and Commercial Research, article writing, talks/lectures, Automotive domain and 20+ other industries.

PROFESSIONAL WORK EXPERIENCE:

AI Architect

10/2007 – present

Baleris Technology LLC – Seattle, WA

I help companies implement AI-first strategy using the full range of advanced technologies, such as Machine Learning and Artificial Intelligence, Generative AI, Cloud and Edge.

Chief Architect, AI & IoT Cloud Solutions

01/2019 – 05/2024

Luxoft, a DXC Technology Company – Bellevue, WA

www.luxoft.com

As a Chief Architect at Luxoft's Automotive org, I focus on Connected Mobility for Software-Defined Vehicles. Some of my projects include: training a Transformer-based ML model for Predictive Maintenance, using ML models in-vehicle to derive intelligent insight on the Edge, cloud-side Connected Vehicle Platform incorporating MLOps. Prior to my role in Automotive org, I worked in the company-wide Architecture Center of Excellence. I do Research and Development with new and upcoming technologies, such as Digital Twins. I work across many industry domains, such as Healthcare and Life sciences, Travel and Transportation, Energy and Utilities, Aerospace and Manufacturing. As a Microsoft Certified Trainer, I conduct internal and external trainings on Azure Cloud technologies such as IoT and AI. I write articles and whitepapers for Luxoft magazine and other publications. I give talks and lectures at industry events and academic institutions.

Cloud Solution Architect, Internet of Things

06/2017 – 12/2018

Microsoft – Redmond, WA

www.microsoft.com

As an Architect of IoT Cloud Solutions at Microsoft's IoT & AI Insiders Lab, I helped dozens of Microsoft's customers create new business value through IoT. I created Cloud Architecture for IoT solutions in many industries: retail, agriculture, construction, energy, smart city, oil & gas, mining, chemical, manufacturing, safety, education, medical, real estate, digital assistant, and more. Optimize solutions for scale, availability, reliability, business continuity, cost, etc. Architectures based on: serverless, microservices, Edge Computing, Containers, Machine Learning, ML/AI, No-SQL, Hot / Cold Storage, DevOps, etc. Implementations based on .NET, C#, Visual Studio and other technology stacks supported by Azure. Review and audit customer's existing architecture for best practices, compliance, security.

Senior Software Engineer

07/2015 – 05/2017

Amazon – Seattle, WA

www.amazon.com

Built the new generation of Elastic Block Storage service for AWS Cloud. Member of elite team working on the fundamental new architecture of the Cloud service. Influence the direction of overall architecture and design of

individual sub-systems. Coordinate with partner teams to enable maximum benefits of the new architecture. Implement critical pieces of the new system.

Software Engineer III

02/2012 – 06/2015

Microsoft – Redmond, WA

www.halowaypoint.com

Built backend services for 2 releases of Halo – Microsoft's largest Xbox game. Prototyped critical aspects of the design and explored the boundaries of the Cloud deep into uncharted territory. Advisory role to the partner teams, providing guidance on best practices in building against the platform.

Principal Software Engineer

05/2011 – 02/2012

FatCloud – Bellevue, WA

Architected and implemented the integration of FatCloud's Big-Data distributed platform with Azure Cloud.

Software Engineer

09/2010 – 05/2011

Getty Images – Seattle, WA

www.gettyimages.com

Resolved critical performance bottlenecks resulting in multiple orders of magnitude improvement in search indexing.

E-Commerce Architect

05/2010 – 09/2010

Columbia Sportswear – Portland, OR

www.columbia.com

Served as E-Commerce Architect with the focus on B2B sales channel.

Research Software Developer

02/2009 – 04/2010

Microsoft Research – Redmond, WA

research.microsoft.com

Collaborated with researchers on Cloud operations efficiencies and contributed to published papers for SoCC'10 conference (Symposium on Cloud Computing). Ran experiments on exotic hardware platforms and built demos for Microsoft Research Fair.

E-Commerce Architect

12/2007 – 12/2008

Celebrate Express – Kirkland, WA

Re-architected legacy E-Commerce system and prototyped the next-generation design based on Microsoft platform. Defined infrastructure required to meet the SLA, provided cost estimates.

E-commerce Team Lead

06/2005 – 11/2007

MediaNet Digital – Seattle, WA

Lead green-field architecture and implementation of E-Commerce stack for MediaNet's digital media platform, featuring SOA-architecture, multi-tenant support, user profiles, billing and subscriptions, micro-payments, and more. Managed a multi-disciplinary team of Dev and Test that owned Customer Service Portal. Represented the company during technical phase of negotiations and on-boarding of a strategic partner in Seoul, South Korea.

Software Engineer

10/1999 – 06/2005

Microsoft – Redmond, WA

www.microsoft.com

Shipped first two versions of Microsoft .NET, followed by two releases of Microsoft Commerce Server.

EDUCATION:

- Master's degree in Physics, University of Nizhny Novgorod, Russia
- Physics, Montana State University, Bozeman MT

CERTIFICATIONS:

- **AI/ML:** Azure Data Scientist and AI Engineer, DXC Industrialized AI Leader and Data Scientist
- **Microsoft Professional Program** in IoT: ML for Predictive Analytics, Design and Architecture, Data Analytics and BI, and more
- **Cloud:** Solution Architecture on Azure, AWS and GCP
- **Microsoft Certified Trainer**
- **SME:** I created several exams for Microsoft Certifications as Subject Matter Expert