

# Andriy Stasyuk

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Engineer — ML Ninja & Educator — Competitive Programmer — Dropout MD 🇺🇸

**Snowflake** Bellevue, WA 02/2023–present

[Cortex](#) — AutoML functions for tabular data

**Google** New York, NY → WA 10/2014–03/2023

[Gradient Ventures](#) Startup Resident ..... 07/20–03/23

- [Mine](#) — privacy reclaim recommender system
- [TypingDNA](#), *head of ML* — [continuous auth](#) & [emotion recognition](#) via keystroke dynamics

YouTube Music ..... 10/18–07/20

- Song relevance modeling & dataset acquisition
- Collaborative filtering for radio recommendations

[Magenta](#) / ML Ninja 🧑 01/18–10/18

- Distributed processing pipeline to align 200+ hours of audio / MIDI for the [MAESTRO](#) dataset
- Generative audio synthesis, reharmonization

Google Maps ..... 10/14–01/18

- Reengineering lifecycle management of *all* external user edits to scale up moderation

**Microsoft** Redmond, WA 10/2011–09/2014

.NET Native Toolchain ..... 05/14–09/14

- Running managed apps without the runtime

Managed Languages ..... 09/12–05/14

- [Async / await](#) debugger in Visual Studio
- [Roslyn](#), C# / Visual Basic compiler platform

Visual Studio, Project & Build ..... 10/11–09/12

- Fuzz, scalability, endurance testing

**Deutsche Bank** St. Petersburg, RU 08–09/2011

Global Tech Capital, *AVP* — FX trading platform

**Broadridge** St. Petersburg, RU 08/2008–07/2011

[Portfolio Master](#) — derivative price modeling

**Prostobank** Kyiv, UA 10/2007–08/2008

- Architected consumer finance analytics backend

**Freelancer.com** 03/2007–11/2007

- Poker probability calculator, heavily optimized

**i.LEVEL** London, UK 11/2005–10/2006

- Content and document management system

**Anahoret** Donetsk, UA 02/2004–06/2004

- Full-stack web development

## PAPER TRAIL

- Enabling Factorized Piano Music Modeling and Generation with the [MAESTRO](#) Dataset. [\[arXiv:1810.12247\]](#) ..... [ICLR'19](#) oral, *top 1.5%*
- Patents: 🇺🇸 [US10545852B2](#) [US10078575B2](#)  
🇪🇺 [EP2972881B1](#) 🇨🇳 [CN105308578B](#)  
🌐 [WO2014159147A1](#)
- Async Causality Chain Tracking. [\[MSDN\]](#)

## TEACHING ML & CS

Google and [CapitalG](#) startups (up to 80+ students):

- [Recommendation systems](#)
- [ML crash course](#)
- [ML problem framing](#)
- Sequence models
- [Data preparation](#)
- [Introduction to ML](#)

Schools and regional teams:

- Competitive programming
- Data structures & algorithms
- Intro to CS

## CONTESTS

[Olympiads in Informatics](#):

- 🇰🇷 International ..... South Korea 🥉 3<sup>rd</sup>—'02
- 🇺🇦 National ..... 🥈 2<sup>nd</sup>—'02, 🥈 2<sup>nd</sup>—'01
- Regional ..... 🥇 1<sup>st</sup>—'02, 🥈 2<sup>nd</sup>—'01, 🥉 3<sup>rd</sup>—'00

[ACM ICPC](#):

- 🇷🇺 SE Europe ..... România 9<sup>th</sup>—'03, 10<sup>th</sup>—'02
- 🇺🇦 National Cup ..... 🏆 1<sup>st</sup>—'03, 🥉 3<sup>rd</sup>—'04
- 🇺🇦 National ..... 🥉 3<sup>rd</sup>—'04, 🥉 3<sup>rd</sup>—'03, 🥉 3<sup>rd</sup>—'02
- Regional ..... 🥇 1<sup>st</sup>—'04, 🥇 1<sup>st</sup>—'03

*Problem setter, jury, coach:*

- 🇺🇦 National Olympiad in Informatics ..... 2003–2007
- 🇺🇦 National Cup ..... 2003–2004

## TECHNOLOGY

TensorFlow Python C++ C#

## EDUCATION

NW State Technical University St. Petersburg, RU

- Computer Engineering ..... 2008–2010

Donetsk National Medical University Donetsk, UA

- *Medicine* 🇺🇦 ..... 2004–2008

Donetsk National Technical University Donetsk, UA

- Computer Eng. & Sys. Programming ..... 2002–2007